ANALAO 119 (1–12) 1–2826, 1N–172N (1994)
ISSN 0003–2654

The Analyst

An International Analytical Science Journal

Volume 119 1994

Published by
THE ROYAL SOCIETY OF CHEMISTRY
THOMAS GRAHAM HOUSE, CAMBRIDGE, CB4 4WF

THE ANALYST

THE ANALYTICAL JOURNAL OF THE ROYAL SOCIETY OF CHEMISTRY

Analytical Editorial Board

Chairman: J. N. Miller (*Loughborough, UK*)

M. Cooke (*Sheffield, UK*)
C. S. Creaser (*Nottingham, UK*)
D. G. Davies (*London, UK*)
A. G. Fogg (*Loughborough, UK*)
J. M. Gordon (*Cambridge, UK*)
G. M. Greenway (*Hull, UK*)
S. J. Hill (*Plymouth, UK*)
D. L. Miles (*Keyworth, UK*)
R. M. Miller (*Gouda, The Netherlands*)
B. L. Sharp (*Loughborough, UK*)
M. R. Smyth (*Dublin, Ireland*)
Y. Thomassen (*Oslo, Norway*)
P. Vadgama (*Manchester, UK*)

ADVISORY BOARD

J. F. Alder (*Manchester, UK*)
A. M. Bond (*Victoria, Australia*)
J. G. Dorsey (*Cincinnati, OH, USA*)
L. Ebdon (*Plymouth, UK*)
A. F. Fell (*Bradford, UK*)
J. P. Foley (*Villanova, PA, USA*)
M. F. Giné (*Sao Paulo, Brazil*)
T. P. Hadjiioannou (*Athens, Greece*)
W. R. Heineman (*Cincinnati, OH, USA*)
A. Hulanicki (*Warsaw, Poland*)
I. Karube (*Yokohama, Japan*)
E. J. Newman (*Poole, UK*)
J. Pawliszyn (*Waterloo, Canada*)
T. B. Pierce (*Harwell, UK*)
E. Pungor (*Budapest, Hungary*)
J. Růžička (*Seattle, WA, USA*)
R. M. Smith (*Loughborough, UK*)
K. Štulík (*Prague, Czechoslovakia*)
J. D. R. Thomas (*Cardiff, UK*)
J. M. Thompson (*Birmingham, UK*)
K. C. Thompson (*Sheffield, UK*)
P. C. Uden (*Amherst, MA, USA*)
A. M. Ure (*Aberdeen, UK*)
C. M. G. van den Berg (*Liverpool, UK*)
A. Walsh, K.B. (*Melbourne, Australia*)
J. Wang (*Las Cruces, NM, USA*)
T. S. West (*Aberdeen, UK*)

REGIONAL ADVISORY EDITORS

Professor Dr. U. A. Th. Brinkman (*The Netherlands*)
Professor P. R. Coulet (*France*)
Dr. O. Osibanjo (*Nigeria*)
Professor F. Palmisano (*Italy*)
Professor K. Saito (*Japan*)
Professor M. Thompson (*Canada*)
Professor Dr. M. Valcárcel (*Spain*)
Professor J. F. van Staden (*South Africa*)
Professor Yu Ru-Qin (*China*)
Professor Yu. A. Zolotov (*USSR*)

Editorial Manager, Analytical Journals
Janice M. Gordon

Editor, The Analyst
Harpal. S. Minhas

US Associate Editor, The Analyst
Dr Julian F. Tyson

Assistant Editors
Sarah Williams Caroline Seeley Yasmin Khan

Editorial Secretary: Claire Harris

© The Royal Society of Chemistry, 1994. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photographic, recording, or otherwise, without the prior permission of the publishers.

Printed by Black Bear Press Limited Cambridge England

AUTHOR INDEX, 1994

Aaron, Jean-Jacques, 1177, 1205
Abbate, M., 609
Abbott, Richard W., 2043
Abdel-Aziz, Ragab M., 1993
Abdel-Samad, Mohamed S., 1993
Abdelqader, E., 703
Abelairas, Angel, 323
Abu Zuhri, Ali Z., 1967
Acedo, Maria I., 1151
Acree, Jr, William E., 2129
Adachi, Hirohiko, 601
Adam, Albert, 2659, 2663
Adams, Fred, 971
Adányi, Nóra, 1843
Adelhelm, Karin, 349
Agudo, Manuel, 2097
Aherne, W., 431
Ahmed, Mona A., 1367
Ahmed, N. Z., 2427
Ahuja, Eric S., 353
Akagiri, Mioko, 1413
Akaiwa, Hideo, 709
Aksnes, Dagfinn W., 641
Al-Masri, M. S., 465
Al-Najafi, T. S., 2199
Albertini, Attilia, 2749
Albinsson, Bo, 417
Alçada, Manuel N. M. P., 2327
Alderman, John, 287
Aldstadt, Joseph H., 1813
Alegret, Salvador, 2319
Alés Barrero, F., 1903
Alfassi, Zeev B., 1033, 2407
Ali, Azza M. M., 1071
Alimpiev, Sergue S., 579
Allen, David W., 903
Allen, Graham D., 2043
Alonso, Julián, 2319
Alonso, Rosa M., 319, 323, 963, 2359
Altinöz, Sacide, 1575
Alvarez Rodríguez, L., 1381
Amarasiriwardena, Dulasiri, 1017
Analytical Methods Committee, 2363
Anastasio, A., 2591
Anderson, James M., 2283
Anderson, Stephen P. L., 2553
Andraus, Maristela H., 2697
Andre, François, 2529
Andrew, Kevin N., 1541
Andrew, Peter D., 2395
Andronati, S. A., 647
Anstice, Philip J. C., 2135
Araujo, Katiuska, 623
Arca, Meral, 719
Archimbault, Philippe, 2743
Arcos, M. Julia, 1585
Arenas, Rene V., 1303
Argentine, Mark, 1017
Arnaud, N., 2453
Arnot, K. I., 909
Arrabal, Mercedes Jiménez, 1537
Arrigan, Damien W. M., 287, 1953
Arruda, Marco A. Z., 1695
Arslantas, Ali, 1257
Avidad, Ramiro, 1211
Awasthi, Sheodulare P., 1361
Aylott, Ross I., 1741
Ayotte, Christiane, 2663
Bachas, Leonidas G., 2421
Bacigalupo, Maria Angela, 2813
Baesso, M. L., 561
Baeyens, Willy, 2713
Bagur, Gracia, 1157
Bai, Guangbi, 2463
Baker, Mark E. J., 959
Bakkeren, Henk A., 71
Baldo, M. Antonietta, 1239
Baldwin, S., 1701
Balizs, Gabor, 2687
Balugera, Zuriñe Gomez de, 269
Bandow, Hiroshi, 1829, 2237
Bănică, Florinel G., 309, 2343
Bard, Allen J., 719
Barnabas, Ian J., 2381
Barnes, Ramon M., 131, 1003, 1011, 1017
Barnett, D. , 1997
Baró-Romà, Jordi, 2319
Baron, P. A., 35
Barrales, J. M., 1547
Barratt, Rod S., 2805
Barreira Rodríguez, José Ramón, 1979
Barrio, Ramon J., 269, 2183
Barroso, M. Begoña, 2359
Barry, Brian W., 563
Barthakur, N. N., 1475
Bartle, Keith D., 1471, 2789
Bartlett, Philip N., 175
Bartrolí, Jordi, 2319
Bast, Aalt, 2667
Bates, Paul S., 181
Batjoens, Peter, 2557, 2571, 2581, 2607
Battersby, P., 925
Baxter, P. J., 1807
Beauchemin, Diane, 1677
Beinrohr, Ernest, 1355
Belin, Nicole, 1715
Beliveau, Louise, 2663
Bellagamba, Federica, 2749
Belov, Mikhail E., 579
Belshaw, Nigel J., 1939
Bercu, Cristiana, 689
Bermejo Martín-Lázaro, A. J., 2241
Bernard, J., 1475
Bersier, Pierre M., 219
Berthelot, Michel, 683
Bertran, Enriqueta, 1779
Bhardwaj, R. C., 781
Bier, Frank F., 437
Bigwood, Tim, 2057
Bilewicz, Renata, 1235
Bilitewski, Ursula, 1251
Bin, Liu, 1599
Birch, Brian J., 243
Birch, Helen L., 2395
Blackburn, R., 465
Blain, Philippe, 361
Blais, J. S., 1475, 1765
Blanchflower, W. John, 1325, 2595
Blanco, Marcelo, 1779
Blanco, Paulino Tuñon, 1979
Blomquist, Göran, 53
Bobacka, Johan, 1985
Bockris, J. O'M., 781
Bond, Alan M., 1051, 1057, 1R
Bondarenko, Igor, 971
Bonn, Günther K., 2795
Börner, Steffen, 2687
Borsuk, Pavlo S., 443
Bosch-Reig, F., 2123
Botsoglou, Nickos A., 2801
Bottari, Emilio, 469
Boulou, J. C., 665
Boussemart, Marc, 1349
Boyd, Damien, 1467, 1979
Brambilla, G., 2591
Brand, T. L., 125
Branica, M., 2443
Bratov, Andrey V., 449
Braun, W., 609
Breen, David G. P. A., 2789
Brereton, Richard G., 2149
Brett, Christopher M. A., 1229
Bright, Frank V., 505
Brindle, Ian D., 377
Brinkman, Udo A. Th., 1753, 2025
Brookes, Beverley I., 897
Brouwer, Bert, 2617
Brown, R. H., 75
Bruckenstein, Stanley, 167
Bruntlett, Craig, 219
Buck, Richard P., 2283
Buckley, D. T., 841
Buldini, Pier Luigi, 121
Burke, L. D., 841
Busfield, W. Ken, 2005
Bushell, Gillian R., 2005
Butt, Hans-Jürgen, 1943
Bychkov, Eugene A., 449
Cai, Pei Xiang, 1853
Caí, Xiaohua, 299
Callejón Mochón, M., 1571
Calvarese, S., 2611
Cámara, Carmen, 1647
Campbell, John, 2631
Campbell, Sheelagh A., 727
Campiglio, Antonio, 2209
Campillo, Natalia, 1119
Campíns-Falcó, P., 2123
Cannavan, Andrew, 1325
Cano Pavón, J. M., 1221
Capitán-Vallvey, Luis Fermín, 1211
Cardwell, Terence J., 1051, 1057
Cariati, F., 2485
Carlsen, Lars, 605
Carmezim, M. J., 609
Carmona, Pedro, 1115
Caro Gámez, Concepción, 1537
Carp, Mihai, 1087
Carp, Nicoleta, 1087
Carpenter, R. C., 1759
Caruana, Daren J., 175
Casabiell, Dolores, 1705
Casajús, Rocío, 1557
Cattrall, Robert W., 1051, 1057
Cazaux, L., 2315
Cazemier, Geert, 2675
Cee, Rick, 57
Cerda, V., 1077
Cerny, Ronald L., 497
Champion, Bruce R., 1051, 1057
Chan, Wing Hong, 1853, 2809
Chang, Xijun, 1445
Charters, S., 909
Chen, Beshen, 459
Chen, Da Yong, 349
Chen, Liang, 1345
Chen, Ni, 1659, 1669
Chen, Pin-Gang, 2105
Chen, Qiang, 1849
Chen, Rong-mei, 2251
Chen, Zhan-Guang, 1859
Cheng, Jing, 677
Cheng, Xiao Li, 349
Chi, Quijin, 1063
Chiavari, G., 1141
Chiba, Koichi, 709
Chiba, Mikio, 377
Chin, Rustum, 1277, 1283, 1293
Christensen, Finn, 2627
Christensen, P. A., 735
Christian, Gary D., 975, 1459, 1807, 2309
Christie, Ian M., 949
Christopher, Steven J., 505
Ciszkowska, Malgorzata, 239
Civitareale, C., 2591
Clark, A., 1719
Clark, C., 1997
Clench, Malcolm R., 903
Clifford, Anthony A., 1471, 2789
Clyne, Angus H., 1741
Cobb, J., 1759
Cobo, Isabel G., 421
Cocks, Simon, 921
Codd, Geoffrey A., 1525
Coedo, Aurora G., 421
Coello, Jordi, 1779
Colbert, David L., 1797
Coldham, Nicholas G., 2549
Colina de Vargas, Marinela, 623
Collins, Greg E., 1907
Collins, Sean, 2671
Collister, J., 909
Colom-Altés, M., 1077
Coly, Atanasse, 1205
Compañó, Ramon, 1225
Cookeas, Efstathios G., 1607
Cordero, Bernardo Moreno, 2447
Cornelisse, Jan, 2129
Corns, Warren T., 1641, 2481
Correia dos Santos, A., 609
Cosio, Maria Stella, 2001
Cosofret, Vasile V., 2283
Costadinnova, L., 1887
Costiou, Sophie, 2789
Courtheyn, Dirk, 2557, 2571
Cowell, David C., 213
Craig, Jane M., 1677
Craston, Derek H., 1801
Crespi, Francesco, 2193
Crews, Helen M., 2491
Cristófol Alcaraz, E., 1221
Crooks, Steven R. H., 2603
Crosby, Neil T., 427, 1483
Croubels, Siska, 2713
Csémi, Pavol, 1355
Čuljak, I., 2443
Cullen, Peter, 389
Cumming, Robert H., 2411
da Cruz Vieira, Iolanda, 2101
Daenens, P., 2221
Daeseleire, Els, 2655
Dakashev, Anastas Dimitrov, 1835
Dalangin, Ruelito R., 1603, 2187
Dale, Michael J., 571
Dalene, M. D., 2051
Daniele, Salvatore, 1239
Das, Joyce Vanisha, 1387
Date, Yuuko, 1047
Davies, Alan E., 2439
Davies, Antony N., 539
Day, J. P., 125
de Araújo Nóbrega, Joaquim, 2101
de Balugera, Zurine Gomez, 2183
De Brabander, Hubert F., 2557, 2571, 2581, 2607
De Giovanni, F., 2591
de Groot, F. M. F., 609
de Jong, A. P. J. M., 2681
de Koning, Adrianus J., 1319
de Sagher, Roland, 2587
de la Guardia, Miguel, 653, 659, 1773
Deaker, M., 1701
Dean, John R., 925, 2381
Deas, R. M., 1719
Debrauwer, L., 2623
Debruyckere, Greet, 2587
Decolin, Dominique, 2743
Deeks, Nigel J., 2043
Degand, Guy, 2639
del Olmo, Monsalud, 1211
Delahaut, Philippe, 2571, 2639, 2659, 2663
Delepine, B., 2717, 2731
del Valle, Manuel, 2319
Demaesschalck, Eric, 361
Demizu, Yoko, 1489
Dennis, M. John, 2057
Devillers, Michel, 589
Dewald, Howard D., 1813
Diamond, Dermot, 749
Dietrich, Richard, 2543
Diewald, Wolfgang, 299
Dimitrova, Veselina Todorova, 1835
Dion, B., 1765
Dobney, Andrew M., 293
Dolo, L., 2623
Dong, Shaojun, 1063
Dorado López, Teresa, 2081
Dorado, Maria Teresa, 421
Dorn, S. B., 1687
Dovichi, Norman J., 349

Dovis, M., 2813
Dowle, Chris J., 389
Dowman, Anthony A., 213
Downey, Gerard, 2367
Drevenkar, Vlasta, 1135
Drevet, S., 2453
D'Silva, Claudius, 187, 2315, 2337, 2411
Du, Xinzhen, 1891
Dubey, Rajesh Kumar, 141, 1567
Ducros, Veronique, 1715, 2491
D'Ulivo, Alessandro, 633
Dumitru-Stănescu, Rodica, 689
Dumkiewicz, Ryszard, 1619
Durán-Merás, Isabel, 1215
Duty, Robert C., 2141
Duyckaerts, Anne, 2639
Eagles, John, 2491
Echols, Roger T., 2087
Economou, Anastasios, 279, 847
Edmonds, Tony E., 963
Edwards, Christine, 1525
Edwards, Howell G. M., 563
Efstathiou, Constantinos E., 1607
Eggins, Brian R., 827
Eglinton, G., 909
Egsgaard, Helge, 605
El-Shahawi, M. S., 327
Elefterov, Alexander I., 1329
Elenkova, N., 1887
Elizalde, Maria P., 323
Ellahi, S., 491
Elliott, Christopher T., 2565, 2603
Emara, Kamla M., 1071
Englyst, Hans N., 1497, 1511
Eppelsheim, Christian, 2167
Erdösy, Miklós, 2283
Eremin, Sergei A., 2723
Eriksson, Kåre, 85
Eriksson, Svante, 417
Ermens, Andre, 2655
Escobar, Rosario, 1115
Espinosa-Mansilla, A., 1183
Esteve Romero, J. S., 1381
Evans, Mark, 943
Everest, David J., 2727
Everest, Sally J., 2727
Evers, Evert A. I. M., 2645
Evershed, R. P., 909
Fabbri, D., 1141
Faganeli, Jadran, 1125
Falciani, Roberta, 2081
Fang, Lu, 455
Fares, Mohammed M., 693
Farrell, Colin, 2411
Farrington, Amiel M., 233
Fatibello-Filho, Orlando, 2101
Favier, Alain, 1715
Fearn, Tom, 2777
Feng, Yaping, 2805
Fernández Gutierrez, A., 1903
Fernández, Marta, 319
Ferreira, Isabel M. P. L. V. O., 209
Ferrer, Raul, 1225
Ferri, N., 2611
Fesser, Adrian C. E., 2737
Festa, Maria Rosa, 469
Fiedler, H. D., 1109
Fielden, Peter R., 279, 847, 953
Figueiredo, M. O., 609
Fingler, Sanja, 1135
Fink-Gremmels, J., 2521
Fitzgerald, Catherine A., 855
FitzGerald, S. Peter, 2631
Fletouris, Dimitrios J., 2801
Florestan, J., 665
Florido, Antonio, 2421
Fogg, Arnold G., 309, 963, 1967, 2343, 2439
Foley, Joe P., 353, 1303
Formanovsky, Andrei, 2477
Forte, Claudia, 633
Forteza, R., 1077
Foulkes, M., 937
Fox, Anthony P., 1741
Frache, R., 2485
Francis, John M., 1801
Francis, Kathyrn S., 2565
Frant, Martin S., 2293
Frébortová, Jitka, 1519
Freitas, Suely, 1793
French, Martin T., 943, 2769
Fresta, Massimo, 1561
Fröbe, Zlatko, 1135
Frost, G., 431
Frutos, G., 1547
Fukasawa, Tsutomu, 1391, 2113
Fung, Ying-Sing, 1029
Furuno, Koji, 1047
Furusawa, Motohisa, 1081
Gaikwad, Abaji, 1819
Gaind, Virindar S., 1043
Galeano Díaz, Teresa, 1151
Gallacher, Gerard, 1797
Gallego, Mercedes, 1695
Galletti, G. C., 1141
Gallignani, Máximo, 653, 659, 1773
Gao, Hong-Wen, 2109
Gao, Jinzhang, 1891, 2463
Gao, Wenyun, 1445
Gao, Yun-hua, 473
Gao, Zhiqiang, 459
García-Alvarez-Coque, M. C., 1093, 1381
García Campaña, A. M., 1903
Garg, A. N., 1417
Garrido-Fernández, Antonio, 2037
Garrido Frenich, A., 1189, 2231
Garrigues, Salvador, 653, 659, 1773
Gaskin, James E., 1531
Gaston, Cynthia M., 1683
Gaudez, M. T., 665
Gaydecki, P. A., 847
Gázquez, Domingo, 1157
Gelado-Caballero, M. D., 1593
George, Michael W., 551
Georges, J., 2453
Gervais, Nicole, 2663
Ghauri, M. S., 2323
Giersig, Michael, 727
Gilbert, C., 671
Gill, Nigel, 677
Gilmartin, Markas A. T., 243, 833, 2331, 2431
Glish, Gary L., 533
Goddard, Colin P., 2395
Goddard, Nicholas J., 583
Godfrey, Miguel, 2691
Goicolea, M. Aranzazu, 269, 2183
Gök, Yaşar, 1629
Gökmen, I. G., 703
Golubkov, Sergiy P., 443
Gómez Coedo, Aurora, 2081
Gonzalo, Encarnacion R., 1459
Gooch, John C., 1797
Gorbatyuk, V. Ya., 647
Gorczyńska, Krystyna, 1195
Gosselé, Francis, 361
Goto, Katsumi, 135
Grabarić, Zorana, 1099
Gray, James, 991
Grazia Del Monte Tamba, Maria, 2081
Greenway, Gillian M., 293, 879, 929
Griffin, Jason M., 2129
Groenewegen, Matthieu G. M., 1753
Grosjean, R., 9
Gross, Michael L., 497
Gu, Nai-Lin, 2105
Gu, Xiao Hong, 1853
Gu, Zhi-cheng, 2251
Guevremont, R., 1337
Guilbault, George G., 2279
Guiteras, Jacinto, 1225
Gulmini, Monica, 2075
Gültekin, Nurbay, 1629
Gunasingham, Hari, 1603, 2187
Gungor, Atilla, 693
Gunning, A. Patrick, 1939
Gupta, V. K., 1387, 1883
Gurumallesh Prabu, Halliah, 1867
Haasnoot, Willem, 2675
Hacaloglu, Jale, 693
Hafez, Medhat A. H., 1103, 2467
Haggett, Barry G. D., 197
Hamdon, H. S., 2199
Hamnett, A., 735
Hampp, Norbert, 2167
Han, Chuan-qiang, 2251
Hanai, Toshihiko, 1167
Hansen, Elo H., 333
Hara, Hirokazu, 1839
Harper, Martin, 65
Hart, John P., 243, 253, 259, 833, 2331, 2431
Hartley, Ian C., 259
Hartman, Leopold, 1793
Hassan, Saas S. M., 1993
Hata, Noriko, 135
Hatano, Hiroyuki, 1167
Hattori, Masaharu, 1829
He, Chun-Xiang, 2105, 2247
Heitkemper, Douglas T., 1683
Hellenäs, Karl-Erik, 2635
Hendriks, Lutgart, 2571, 2581
Hernández-Brito, J. J., 1593
Hernández, C. V., 1171
Hernández Córdoba, Manuel, 1119
Hernández García, J., 2241
Hernández, Lucas, 1579, 1971
Hernández, P., 1579
Herrera-Melián, J. A., 1593
Herrero, Ana, 1585
Hester, R. E., 491
Hewitt, S. Armstrong, 2595
Hey, J., 1051
Higgins, S. J., 735
Higson, Séamus P. J., 949
Hill, Steve J., 2785
Hillman, A. Robert, 167
Hilton, J., 2403
Hintsche, Rainer, 1245
Hioki, Akiharu, 1879
Hiraide, Masataka, 1451
Hirose, Tsuyoshi, 1747
Hitchen, S. M., 925
Hofbauerová, Helena, 1355
Hogeboom, Cristel, 1403
Holak, Walter, 2179
Hollis, Frank J., 2043
Hooijerink, Dick, 2617, 2675
Hooijerink, Hendricus, 2667
Hornero-Méndez, Dámaso, 2037
Horrocks, Benjamin R., 719
Hou, Jingguo, 1891
Houghton, Edward, 2537
Hourani, Mohammed Khair, 1975
Howell, Jonathon, 219
Howells, Laurence, 2691
Hsu, Su-Jen, 403
Hu, Xincheng, 1829, 2237
Huang, Sha-Sheng, 1859
Hudson, Geoffrey J., 1497
Huebra, Marta, 323
Huf, Fred A., 2667
Hughes, Noelle A., 167
Hulanicki, Adam, 2417
Hurtaud, D., 2717, 2731
Ichinose, Norio, 409
Ikeda, Shigero, 409
Iliescu, T., 567
Inamoto, Isamu, 709
Indyk, Harvey E., 397
Inoue, Takehiro, 601
Iosifidou, Eleni, 2227
Ishihara, Shinsuke, 473
Ishii, Mikita, 1397
Ishizuka, Toshio, 1023
Ismail, A. A., 1765
Israel, Yecheskel, 1011
Itoh, Hisaaki, 409
Itou, Shigenao, 2237
Iturriaga, Hortensia, 1779
Ius, A., 2813
Ivaska, Ari, 1985
Iwata, Tetsuharu, 1747
Iwatsuki, Masaaki, 1391, 2113, 2119
Iwuoha, Emmanuel I., 265
Jaber, A. M. Y., 2351
Jackman, Roy, 2705, 2723, 2727
Jacquemijns, Marjorie, 2645
Jäger, Anja, 1251
Jagota, Nidhi, 233
Jameel, Mohammad, 2481
James, Daniel, 2005
Janata, Jiří, 2275
Janiszewska, Zofia, 1553
Jaschke, Manfred, 1943
Jenner, William N., 2395
Jiménez, Rosa M., 319, 323, 2359
Jiménez Sánchez, J. C., 1571
Jinrui, Xu, 1599
Jockers, Ralf, 437
John, M. J., 1997
Jones, Anita C., 571
Jones, P., 937
Jones, Stephen R., 991
Jones, Timothy R. B., 377
Jungblut, Helmut, 727
Juvonen, Riitta, 617
Kalcher, Kurt, 299
Kallio, Eeva, 617
Kamala Sastri, C., 2817
Kang, Jingwan, 1891, 2463
Kang, Tian Fang, 1067
Kanning, Marja W., 1939
Kao, Weiyuan J., 2283
Karaböcek, Serdar, 1629
Karayannis, Miltiades I., 1613
Karim, M. R. O., 2427
Karpagaselvi, L., 1375
Kasahara, Issei, 135
Kashparov, V. A., 125
Kastenmayer, Peter, 2491
Kataky, Ritu, 181
Katamine, Asako, 1333
Katmeh, M. F., 431
Kato, Hirofumi, 2119
Kawaguchi, Hiroshi, 1451
Kawai, Jun, 601
Kawakubo, Susumu, 1391, 2119
Kawashima, Susumu, 1489
Kenawy, Ibrahim M. M., 1103, 2467
Kennedy, D. Glenn, 1325, 2595, 2603
Kennedy, E. R., 89
Kenny, Peter T. M., 891
Khodari, Mahmoud, 1071
Kimbrough, David Eugene, 383, 1277, 1283, 1293
Kimtys, Liudvikas, 641
King, Dewey F., 1813
Kinoshita, Toshio, 1167
Kissinger, Peter T., 874
Kitano, Masaru, 1829, 2237
Klas, Ján, 981
Klawun, Christoph, 483
Klockow, Dieter, 1075
Knight, Andrew W., 879
Knight, Roger W., 1057
Kobayashi, Yoshio, 2009
Kocjan, Ryszard, 1863
Koh, Tomozo, 2457
Kohashi, Kazuya, 1047
Kokot, Serge, 671, 677
Kokubun, Akira, 1879
Kometa, Nsanyi, 929
Kontani, Hitoshi, 1489
Koprivanac, Natalija, 1099
Korsrud, Gary O., 2737
Koshino, Yukihiro, 2473
Kosmidis, C., 1719
Kragten, J., 2161
Kralj, Bogdan, 1129
Kramer, Gerard F. H., 1939
Krekling, T., 125
Krishna Prasad, K. M. M., 2817
Kristensen, Lis Vinther, 605
Krock, Kevin A., 483
Krushevska, Antoaneta, 131, 1017
Ku, James C., 57
Kubista, Mikael, 417
Kubota, Masaaki, 1879
Kubrakova, Irina, 2477
Kudinova, Tamara, 2477
Kumar, K. Girish, 1375
Kumar, Manjeet, 2013
Kumke, M. U., 997
Kurtoğlu, Mükerrem, 2213
Kuwabara, Masayoshi, 1787
Kuz'min, Nicolai, 2477
Laakkonen, Ulla-Maija, 2695
Łabudzińska, Anna, 1195
Ladrière, Jean, 589
Lagerwaard, André, 1421
Laing, D. G., 1997

Lakomaa, Tuula, 617
Lamont, John, 2631
Lamothe, Pierre, 2659
Lampugnani, Leonardo, 633
Lan, Chi-Ren, 1033
Lan, Wei Guang, 1659, 1669
Lancaster, Herbert L., 1459
Lancival, Bernard, 2571
Landis, William J., 1935
Landon, John, 2723
Lane, William A., 287
Langridge-Smith, Patrick R. R., 571
Lappalainen, Reijo, 1725
Larsen, Elfinn, 605
Lasagabaster, Aurora, 1115
Lau, Oi-Wah, 1037
Lauer, J.-C., 1731
Laurence, Christian, 683
Lawton, Linda A., 1525
Lazarević, Zvjezdana, 1099
Le Bizec, Bruno, 2529
Ledingham, K. W. D., 1719
Ledo de Medina, Hilda, 623
Lee, Yong Ill, 1441
Legorburu, Maria J., 319
Lehto, Sari, 1725
Leichnitz, K., 99
Leinonen, Antti, 2695
Leroy, Pierre, 2743
Leskovšek, Hermina, 1125
Leung, Ka-Sing, 1037
Levin, Jan-Olof, 79, 85
Lewenstam, Andrzej, 1985, 2417
Lewerenz, Hans Joachim, 727
Li, Bi-Fen, 1859
Li, Cunxiong, 2463
Li, Jun-Zhong, 1363
Li, P. C. H., 1947
Liang, Bing, 1391, 2113
Lidén, Göran, 27
Likonen, Jari, 1725
Lima, José L. F. C., 209, 305, 1229, 2327
Lin, Hui-Gai, 1363, 1859
Lin, Lin, 1455
Lin, Sinru, 1875
Lindahl, Roger, 79, 85
Lindner, Ernö, 2283
Lingeman, Henk, 1753
Liu, Xiaohui, 1875
Livens, F. R. , 2403
Liversidge, Robert D., 389
Löhmannsröben, H.-G., 997
Lommen, Arjen, 2675
Lopez, David, 455
López Garcí, Ignacio, 1119
Lopez, Nancy M. R., 2697
López-Palacios, Jesús, 1585
López-Sánchez, J. F., 1109
Lorber, Marion, 2765
Lorberau, C. D., 89
Lounici, A., 2351
Louter, Arjan J. H., 2025
Lu, Xingen, 1875
Lugtenburg, Johan, 2129
Luo, Xingyin, 1445
Luque de Castro, M. D., 1625
Luten, Joop B., 2491
Luzzana, Umberto, 2749, 2757
Lyons, Michael E. G., 805, 855
Macášek, Fedor, 981
McCaffrey, Carol A., 897
McCarrick, Mary, 1985
McCaughey, William John, 2565, 2603
McConnell, Ivan, 2631
McCreedy, Thomas, 953
McEvoy, John D. G., 2603
McGaw, Brian A., 2491
Machado, Adélio A. S. C., 2263
Mackay-Sim, Alan, 2005
MacLachlan, John, 897
McMahon, Adam W., 991
McMurrough, Ian, 863
MacNeil, James D., 2737
Madigan, David, 863
Madrid, Yolanda, 1647
Maeda, Kuniko, 601
Maeda, Yasuaki, 1829, 2237
Maggi, Gian Luca, 2749, 2757
Maghuin-Rogister, Guy, 2639
Mahadik, Bharat E., 2033
Mahedero, M. C., 1177
Maher, W., 1701
Mahmood, Imtiaz, 1797
Malyan, Andrew P., 389
Mandravel, Cristina, 689
Manisankar, Paramasivam, 1867
Mannaert, Erik, 2221
Mannino, Saverio, 2001
Mantis, Antonios I., 2801
Manzi, P., 1161
Marchand, Philippe, 2529
Marian, I., 567
Marsel, Jože, 1129
Marshall, A., 1719
Marshall, Graham D., 1459
Marshall, Keith R. B., 1483
Martines Stewart, Laura J., 1003
Martinez Galera, M., 1189, 2231
Martínez-Lozano, Carmen, 1199, 1557, 1825
Martinez Vidal, J. L., 1189, 2231
Märtlbauer, Erwin, 2543, 2765
Maspoch, Santiago, 1779
Massey, Robert C., 2057
Mateu, J., 1077
Matsumoto, Susumu, 1839
Maule, Colin H., 583
Maume, Daniel, 2529
Mazurov, A. A., 647
Mazzocchin, Gian A., 1239
Mazzucotelli, A., 2485
Mellon, Fred A., 2491
Merino, José M., 305
Meroni, G., 2813
Mertens, Bart, 2777
Micali, Norberto, 1561
Michalska, Agata, 2417
Mikuni, Yasushi, 1451
Milačič, Radmila, 627
Milchert, Eugene, 1493
Miller, Jack M., 377
Miller, James N., 943, 2769
Ming Lee, Albert Wai, 2809
Miranda Ordieres, Arturo Jose, 1979
Misca, R., 567
Miyamoto, Etsuko, 1489
Mlakar, M., 2443
Mlinsky, Victor V., 579
Mohite, Baburao S., 2033
Molina, Aurelia Alañón, 1915
Molina, Marina, 1115
Mondal, J. K., 1377
Monteau, Fabrice, 2529
Montenegro, Mª Conceiçao B. S. M., 305, 2327
Montrade, Marie-Pierre, 2529
Moore, Andrea S., 2549
Moreira, Josino C., 309, 963, 2343, 2439
Moretti, Vittorio Maria, 2749, 2757
Morikawa, Hisashi, 1023
Morris, H. W., 2403
Morris, Jacqueline, 903
Morris, Victor J., 1939
Morrison, R. T., 1759
Morrissey, J. A., 841
Motomizu, Shoji, 473, 1787
Mottola, Horacio A., 2093
Moura, Cosme, 759
Mrzljak, Robert I., 1051, 1057
Mulder, Patrick P. J., 2129
Müller, Daniel J., 727
Mullins, Eamonn, 369
Munemori, Makoto, 2237
Muñoz de la Peña, Arsenio, 1151, 1177, 1215, 1537
Muñoz-Vargas, Fernando, 1371
Muntau, H., 1109
Murata, Yoshifumi, 1489
Murillo Pulgarín, José Antonio, 1915
Muszalska, Elżbieta, 1235
Myers, P., 925
Nagashima, Kunio, 2009
Nakajima, Takayuki, 601
Nakamura, Masaru, 1747
Nakamura, Toshihiro, 1397
Nakano, Nobuo, 2009
Nakayama, Keiko, 135
Naqvi, S. M. Saqlan, 1341
Narang, Upvan, 505
Narayana, B., 2217
Narayanaswamy, Ramaier, 959
Narukawa, Akira, 2473
Nascimento, Elizabeth S., 2701
Navarro Frómeta, A. E., 987
Nedderman, Angus N. R., 2537
Nedeltcheva, T., 1887
Nesterenko, Pavel N., 1329
Neuhold, Christian, 299
Neuman, Michael R., 2283
Neves, Eduardo F. A., 1075, 1633
Newman, Jeffrey D., 213
Newman, O. Michael G., 1051, 1057
Nicodemo, T., 1475
Nicolas, Alain, 2743
Nicole, D., 1731
Nieto, O., 1579
Nievergelt, Yves, 145
Niinistö, Lauri, 1725
Nikiforov, Sergue S., 579
Nimura, Noriyuki, 1167
Nolan, L., 2403
Nomato, Kyosuke, 891
Norseth, Tor, 3
Nosal', Svetlana N., 1329
Novosselov, Evgeniy F., 443
Obata, Yoshimitsu, 1787
Ohtani, Shigeru, 1413
Oireu, S. B., 2381
Oka, Hideyuki, 1397
Okabe, Katsuaki, 2457
O'Keeffe, Michael, 1467, 2227, 2671, 2761
Öktem, H. Avni, 1341
O'Neill, Regina M., 2395
O'Neill, Robert D., 767
Ong, Huy, 2659, 2663
Ortiz de Zárate, Izaskun, 305
Ortiz, M. Cruz, 1585
Oshima, Mitsuko, 1787
Ostacoli, Giorgio, 2075
Østby, G., 125
Othman, Hannah, 1483
Oughton, D. H., 125
Owen, S. B., 2381
Özalp, V. Cengiz, 1341
Özer, Durişehvar, 1575
Packham, Andrew J., 279, 847
Paeschke, Manfred, 1245
Pal, Anjali, 1899
Palmer, Derek A., 943, 2769
Panderi, I., 697
Panfili, G., 1161
Panoyan, Avo, 2663
Papadopoulos, Neophytos N., 613
Papež, Vitězslav, 2173
Parilla, P., 2231
Paris, A., 2623
Parissi-Poulou, M., 697
Parker, David, 181
Parker, Richard M., 2577
Parrilla, P., 1189
Patel, Indu, 427, 1483
Patel, Raj K. P., 2577
Patil, Vitthal B., 415
Paull, B., 937
Paynter, John, 191
Paździoch, Waldemar, 1493
Pedrero, P. Sanz, 2377
Pedroso, Rosemary C., 2697
Peifer, William R., 505
Peng, W., 1719
Pérez, A. Guiraúm, 1571
Pérez-Bendito, Dolores, 1819
Pérez-Olmos, Ricardo, 305
Pérez Pavón, José Luis, 2447
Pérez-Peña, J., 1593
Pérez-Ruiz, Tomás, 1199, 1557, 1825
Perko, Silva, 1125
Peters, Ruud J. B., 71
Petersen, H., 609
Petersen, Henning Willads, 2627
Petruzzelli, E., 2813
Phillips, D., 543
Picard, Claude, 2315
Pico, Yolanda, 2025
Pierdominici, E., 2591
Pieterse, Jacobus W., 2651
Pilar da Silva, M., 1971
Pirzad, Ramin, 213, 963, 2439
Pitsch, H., 665
Pitts, Les, 2785
Pittson, Robin, 253
Pizzoferrato, L., 1161
Platteau V., Oswald, 339, 1705
Poliakoff, Martyn, 551
Polidori, Paolo, 2757
Pollard-Knight, Denise, 583
Pollard, Simon J. T., 571
Pollema, C. H., 975
Poole, Colin F., 113
Poole, Salwa K., 113
Portela, M. Jesus, 269, 2183
Porter, Sharon, 2753
Pottie, Gaspard, 2571, 2581, 2607
Potyrailo, Radislav A., 443
Pou, Kunakar, 2659
Pozzi, A., 2485
Prat, M. Dolors, 1225
Prieto, Alma María García, 2447
Prodromidis, Mamas I., 1613
Psomas, Ioannis E., 2801
Puertollano, María J., 323
Puglisi, Giovanni, 1561
Puri, Bal Krishan, 141, 1567
Pyo, Dongjin, 1315
Pyrzyńska, Krystyna, 1553
Quevauviller, Ph., 1109
Quigley, Michael E., 1337, 1497, 1511
Quijada, I., 1547
Quinaz Garcia, M. Beatriz, 1229
Quintela, Mª José, 1695
Raczyńska, Ewa D., 683
Radhakrishnan, T. P., 1361
Raghuraman, K., 2067
Ragunathan, N., 483
Rai, Manish, 1883
Rajesh, N., 2071
Ramachandran, K. N., 1387, 1883
Ramadan, Mohamed A. M., 1103, 2467
Ramakrishna, T. V., 2067
Ramazza, V., 2611
Ramesh, A., 2067
Ramis-Ramos, G., 1381
Rangel, Antonio O. S. S., 963
Rao, B. Muralidhara, 2217
Rao, D., 2623
Rapado Martínez, I., 1093
Rapsomanikis, Spyridon, 1429
Ratti, Emiliangelo, 2193
Raus, Jef, 2581
Read, Gordon, 393
Reade, Gavin, 791, 797
Reddy, Subrayal M., 949
Reto, A. S., 1337
Rezende, Maria Olimpia, 2093
Rhén, Margaret, 85
Rhodes, Gerald, 2043
Ribeiro Neto, Luciane M., 2701
Rice, Jeanette K., 505
Richards, Thomas C., 719
Richardson, Nigel R., 393
Richter, Pablo, 1371
Rieley, Gareth, 915
Rieser, Evelyn M., 2701
Rietz, Bernd, 2407
Ríos, Angel, 109, 2097
Rivaro, P., 2485
Rivero, Carlos J., 421
Robertson, Peter K. J., 827
Roch, Th., 997
Rodríguez Cáceres, Isabel, 1215
Rodriguez, Jesús, 1971
Rodriguez, Maria Luz, 2631
Rojas, Francisco J., 1355
Román Ceba, M., 1903
Rose-Pehrsson, Susan L., 1907
Rosén, Johan, 2635
Rossi, Maura V., 1633
Rowell, Frederick J., 2411
Roy, S. K., 1377
Rubini, P., 2611
Ruck, Nigel, 953
Ruffieux, Daniel, 1715
Ruiz, B. Lopez, 2377
Rutledge, D. N., 1171
Ruzbie, M., 1765

Růžička, Jaromír, 975, 1459, 1807, 1925
Sadik, O. A., 1997
Sáez de Viteri, F. J., 749
Sakai, Takeshi, 1489
Salbu, B., 125
Saleh, Mohamed B., 2205
Salinas, Francisco, 1151, 1177, 1183, 1215
Salisbury, Craig D. C., 2737
Salvadori, Myriam C., 2697, 2701
Sànchez, Joan, 2319
Sánchez, Mercedes, 1157
Sánchez Misiego, Antonio, 1537
Sánchez Peña, Montserrat, 1151, 1177
Sánchez Rojas, F., 1221
Sanders, P., 2717, 2731
Santana Rodríguez, J. J., 2241
Sanz, Antonio, 1825
Sasaki, Tania, 483
Sato, Jun, 1397
Sato, Masaru, 1413
Sauer, Maurice J., 2549, 2553, 2691
Savonen, Leena, 2695
Schilt, Robert, 2617, 2667, 2675
Schmid, Rolf D., 437
Schmit-Quilès, F., 1731
Schneider, Elisabeth, 2543
Schneider, T., 103
Schoene, Claudia, 2537
Schothorst, Ronald C., 2707
Scippo, Marie-Louise, 2639
Segundo, Sandra M. A., 1075
Semenova, Olga P., 2795
Serin, Selahattin, 1629, 2213
Serrini, Giovanni, 2749, 2757
Sfetsios, Ilias, 633
Sham, Wing-Cheong, 1029
Shapiro, Yu. E., 647
Sharma, Jawahar Lal, 121
Sharma, Shikha, 121
Shearan, Paula, 2227, 2635, 2761
Shen, J., 561
Shenoy, Niyoti S., 1361
Sheppard, Brenda S., 1683
Shi, Yin Yu, 1067
Shijo, Yoshio, 1333, 1455
Shingare, Murlidhar S., 415
Shpigun, Oleg A., 1329
Shubietah, Raqi. M., 1967
Siddiqui, Ahmad, 1797
Sigrist, Markus W., 525
Silva, Fernando, 759
Silva, Manuel, 1819
Silverlight, Jonathan J., 2705
Sin, Yoke Min, 1659, 1669
Singh, Raj P., 377
Singh, Vivek, 1417
Singhal, R. P., 1719
Siperko, Lorraine M., 1935
Sivapathasundaram, Susila, 2549
Sjöback, Robert, 417
Skarping, G., 2051
Skelly Frame, E. M., 1687
Slater, Jonathan M., 191, 233, 273, 2303
Slobodnik, Jaroslav, 1753
Smarandache, V., 567
Smets, Felix, 2571, 2581, 2607
Smid, Pieter, 2645
Smith, David S., 2723
Smith, Roger M., 921
Smith, W. E., 327
Smodiš, Borut, 2061
Smyth, Malcolm R., 265, 855, 863, 1467, 1979, 2671
Sneddon, Joseph, 1441
Snook, R. D., 561
Soininen, Pekka, 1725
Solgaard, Per, 605
Somer, Güler, 1257
Sosa Ferrera, Z., 2241
Specchio, John J., 2179
Sprules, Steven D., 253
Spurny, K. R., 41
Stavenuiter, Johannes F. C., 2645
Stephany, Rainer W., 2581, 2645, 2681, 2707
Stevenson, D., 431
Stöckl, Dietmar, 2587
Stockwell, Peter B., 1641, 2481
Stojek, Zbigniew, 239
Stouten, Piet, 2675
Straka, Margit, 2765
Streicher, R. P., 89
Stropnik, Boris, 2061
Stupar, Janez, 627
Su, Zhixing, 1445
Suzer, Sefik, 693
Švancara, Ivan, 299
Svehla, Gyula, 287
Szpunar-Łobińska, Joanna, 1553
Tachibana, Masaki, 1081
Taguchi, Shigeru, 135
Takagi, Nobuhiko, 1413
Takenaka, Norimichi, 1829, 2237
Talanchuk, Petro M., 443
Tao, Guanhong, 333
Tao, Shiquan, 1455
Tatarkovičová, Věra, 1519
Taylor, M. J. C., 1263
Temizer, Aytekin, 1575
Tena, M. T., 1625
Tennakoon, C. L. K., 781
Terplan, Gerhard, 2765
Terqui, M., 2623
Thiel, David V., 2005
Thienpont, Linda M., 2587
Thomas, C. L. Paul, 2135
Thomas, J. D. R., 203, 2323
Thompson, M., 1947
Thompson, Michael, 2777
Thorne, Leigh, 2727
Timerbaev, Andrei R., 2795
Tinnerberg, H., 2051
Tisnes, Piere, 2315
Tkalčević, Biserka, 1135
Toivola, B., 975
Tomás, Virginia, 1199, 1557, 1825
Tomlinson, W. R., 925
Tomm, Yvonne, 727
Tonogaito, Hiroshi, 1047
Toole, Joseph, 991
Toral, M. Inés, 1371
Torazzo, Annamaria, 2075
Törnqvist, Paulina, 2635
Torsi, G., 1141
Treichel, David A., 719
Treiger, Boris, 971
Trist, David G., 2193
Trojanowicz, Merek, 1553
Tsagas, Nicolas F., 613
Tsai, Suh-Jen Jane, 403
Tsuchiya, Hironori, 1413
Tsunoda, Kin-ichi, 709
Tsuruta, Yasuto, 1047
Tsysin, Grigori, 2477
Tucker, D. J., 975
Tucker, Sheryl A., 2129
Tufoi, Veronica, 1087
Turner, James J., 551
Tyson, Julian F., 2087
Uehara, Nobuo, 1333
Uemura, Kouji, 473
Urbani, G., 2611
Ure, A. M., 1109
Usleber, Ewald, 2543, 2765
Vad, Mette, 2627
Vadgama, Pankaj M., 949
Vaireanu, Danut-Ionel, 953
Val, Otilia, 1199
Valcárcel, Miguel, 109, 1625, 1695, 2097
Valfrè, Franco , 2749, 2757
Valiente González, Pablo, 1537
Valiente, Manuel, 2421
van Bennekom, Eric, 2617
van de Merbel, Nico C., 1753
van de Voort, F. R., 1765
van den Berg, Constant M. G., 1349
van der Merwe, Pieter J., 2651
Van Espen, Piet, 971
van Ginkel, Leendert A., 2581, 2645, 2681, 2707
Van Grieken, René, 971
van Hende, Johan, 2581
van Miert, A. S. J. P. A. M., 2521
Van Peteghem, Carlos H., 2557, 2587, 2655, 2713
van Rossum, H. J., 2681
van Staden, J. F., 1263
Vanoosthuyze, Kristina, 2557, 2655
Van Overbeke, Annick, 2655
Van Rompaey, Isabel, 361
Váradi, Mária, 1843
Vázquez Diaz, M. E., 1571
Veltsistas, Panayiotis G., 1613
Vendenreyt, Ingrid, 2557
Vercammen, Jan, 2557
Verdú-Andrés, J., 2123
Viana, Hudson Soares, 1793
Vickerman, John C., 513
Vidal, Mª Teresa, 659
Vijayalekshmi, P., 2817
Vilchez, José Luis, 1211
Villaescusa, Isabel, 2421
Villanueva Camañas, R. M., 1093
Villari, Antonino, 1561
Viñas, Pilar, 1119
Vincent, James H., 13, 19
Visser, T., 2681
Vlasov, Yuri G., 449
Vredenbregt, M. J., 2681
Vreuls, Jolan J., 2025
Wakakuwa, Janice, 383, 1277, 1283, 1293
Walker, David A., 1741
Walker, David F. G., 1471, 2789
Wallace, G. G., 1997
Walsh, Frank, 791, 797
Walton, Brent, 2201
Wang, Joseph, 455, 763, 1345, 1849, 2001
Wang, Kemin, 2809
Wang, Zheming, 2463
Ward, Jesse S., 2141
Warwick, P., 1759
Watt, Esther J., 273, 2303
Wellemans, Joëlle, 497
Wennemar, Anne, 2687
Wentzell, Peter D., 1403
Wickens, David G., 393
Wilkins, Charles L., 483
Willer, C. J., 427
Williams, Adrian C., 563
Williams, Carole, 427, 1483
Williams, Gwyn, 187, 2315, 2337
Williams, Janet L., 2395
Williamson, Gary, 1939
Willis, Julie D., 389
Woittiez, Joost R. W., 1421
Wolff, Elmar K., 1943
Wollenberger, Ulla, 1245
Wong, Ming Keong, 1659, 1669
Wong, Siu-Kay, 1037
Woollard, David C., 397
Worsfold, Paul J., 1541, 2785
Wright, John G., 1797
Wright, M. D., 75
Wring, Stephen A., 253, 2395
Wu, Lin, 1455
Wu, Weh. S., 1043
Wu, Xiao-Chun, 1363
Yabuki, Sadayo, 601
Yalcin, Talat, 693
Yamada, Kuniaki, 1413
Yamada, Yutaka, 1489
Yamaguchi, Masaharu, 601
Yamaguchi, Masatoshi, 1747
Yang, Wu, 2463
Yokota, Fumiaki, 1023
Yu, Ru-Qin, 1363, 1859
Yuan, Ruo, 1363
Yücel, Meral, 1341
Yüksel, Nurşen, 1575
Zambare, Dnyandeo N., 2033
Zamboni, Roberto, 633
Zamoro, A., 1183
Zelano, Vincenzo, 2075
Zhai, Qing-Zhou, 1893
Zhan, Guangyao, 1445
Zhang, Peng-Fei, 2109
Zhao, Su, 1891
Zhou, Nan, 2105, 2247
Zhu, Zhong-liang, 2251
Zi, Minxian, 459
Zigon, Dušan, 1125, 1129
Zolotov, Yuri, 2477
Zomer, Gijsbert, 2645
Zoontjes, Paul W., 2645
Zucchi, M., 2611
Zuiderveld, Obbe P., 2667
Zupančič-Kralj, Lucija, 1129

SUBJECT INDEX, 1994

2,9-DICHLORO-1,10-PHENANTHROLINE
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859

1,2-DIHYDROXYANTHRAQUINONE-3-SULFONIC ACID
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593

1,4-DIOXAN
Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465

8-HYDROXYQUINOLINE
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

2,2′-IMINODIBENZOIC ACID
Selective Method for the Spectrophotometric Determination of Vanadium in the Presence of Other Refractory Elements with 2,2′-Iminodibenzoic Acid, 2105

4-METHYL-*N*-QUINOLIN-8-YLBENZENESULFONAMIDE
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323

5-NITROBARBITURATE
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

19-NORTESTOSTERONE
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627

2-(2-PYRIDYLAZO)-5-DIETHYLAMINOPHENOL
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135

4-(2-PYRIDYLAZO)RESORCINOL
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403

2-2(PYRIDYLMETHYLENEAMINO)PHENOL
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099

5-HT$_3$ RECEPTOR ANTAGONISTS
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043

2,2,2-TRICHLOROETHANOL
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409

Poly(VINYL CHLORIDE)
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985

ACCUMULATION
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553

ACCUMULATION VOLTAMMETRY
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287

ACCURACY
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627

ACENAPHTHENE
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081

ACEPHENANTHRYLENE
Selective Fluorescence Quenching to Discriminate Between Alternant and Non-alternant Polycyclic Aromatic Hydrocarbons: Acephenanthrylene Derivatives as Exceptions to the Nitromethane Quenching Rule, 2129

ACETIC ACID
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427

ACETIC ANHYDRIDE
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427

ACETONE
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239

ACETYL SALICYLIC ACID
Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561

ACETYLCHOLINE
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167

ACETYLCYSTEINE
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309

ACID DIGESTION
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017

ACID MUCOPOLYSACCHARIDE
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591

ACIDITY ORDER
Potentiometric Titrations of Some Azo Dyes Containing a Hydroxy Group With Tetrabutylammonium Hydroxide in Acetonitrile, 2213

ACOUSTIC WAVE DEVICE
Potential Carbon Dioxide Sensing Based on Recognition by *trans*-[Carbonylhydroxybis-(triphenylphosphine)rhodium(I)] Deposited on Acoustic Wave Devices, 1947

ACTIVE CARBON
Novel Sorbents for Sampling Organic Vapours, 65

ACTIVE SITE
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689

ACTIVITY
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361

ADDITIVES
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183

ADENOSINE RESIDUE
Raman Spectra and Analysis of Polynucleotides Containing Adenosine Residues, 1115

ADIPOSE TISSUE
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623

ADSORBENT
Melanin as an Adsorbent for Drug Residues, 2691

ADSORBENT TUBE
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897

ADSORPTION
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349

ADSORPTIVE CATHODIC STRIPPING VOLTAMMETRY
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967

ADSORPTIVE STRIPPING VOLTAMMETRY
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279

On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183

AERIAL OXIDATION
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119

AEROSOL
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801

AFFINITY ADSORBENT
Melanin as an Adsorbent for Drug Residues, 2691

AFFINITY CHROMATOGRAPHY
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

AFLATOXIN B_1
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

AGEING
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

AGGREGATES
Sampling of Biological Particles, 53

AGRICULTURAL
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

AIR
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411

AIR ANALYSIS
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237

AIR CARRIER
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677

AIR MONITORING
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Diffusive Air Sampling of Reactive Compounds. A Review, 79
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Comparison of Detector Tube Method With European Standards, 99
Low-level Particle Sampling, 103

AIR POLLUTION
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061

AIR SAMPLER
Diffusive Sampling Using Tube-type Samplers, 75
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85

AIRBORNE ISOCYANATE
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043

AIRBORNE PARTICULATE
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Low-level Particle Sampling, 103
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411

ALBUMIN
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689

ALCOHOL
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

ALDEHYDE
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853

ALDITOL ACETATE
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125

ALIZARIN RED
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903

ALKALI METAL
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315

ALL-SOLID-STATE ELECTRODE
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263

ALLOY
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Sensitive Spectrophotometric Determination of Zirconium With *p*-Acetylchlorophosphonazo in the Presence of Sodium Dodecylbenzenesulfonate, 1893

ALOSETRON
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395

ALPHA SCINTILLATION
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

ALPHA SPECTROMETRY
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

ALUMINIUM
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339

Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407

ALUMINIUM OXIDE
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

ALUMINOSILICATE
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339

AMARANTH INDICATOR
Determination of Cimetidine in Pure Form and in Dosage Forms Using *N,N*-Dibromodimethylhydantoin, 1375

AMINE
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809

AMINOPOLYCARBOXYLIC ACID
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795

AMMONIA
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443

AMMONIA SENSOR
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Development of a Monitoring Tape for Ammonia Gas in Air Using Rose Bengal, 2009

AMMONIUM ION
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829

AMMONIUM IONOPHORE
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323

AMPEROMETRIC ARRAY
Amperometric Arrays in Flowing Solution Analysis, 953

AMPEROMETRIC BIOSENSOR
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833

AMPEROMETRIC SENSOR
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251

AMPEROMETRY
Selective Membrane Electrodes for Analysis, 203
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Organic-phase Application of an Amperometric Glucose Sensor, 265
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Amperometric Arrays in Flowing Solution Analysis, 953
Small-volume Batch-injection Analyser, 1345
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431

AMPEROZIDE
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687

ANABOLIC
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667

ANABOLIC AGENT
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707

ANABOLIC STEROID
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655

ANABOLIC STEROID ESTER
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

ANALYTICAL ERROR
Sampling of Inorganic Gases and Vapours, 57

ANALYTICAL LABORATORY
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369

ANILINE
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

ANIMAL FATTENING
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

ANIMAL FEED
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

ANIMAL FEEDINGSTUFFS
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483

ANIMAL HUSBANDRY
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

ANIMAL TISSUE
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325

Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743

ANION
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

ANIONIC IMPURITY
Determination of Trace Amounts of Anionic Impurities in Hydrochloric Acid by Ion Chromatography, 121

ANIONIC SURFACTANT
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319

ANISOTROPY
Luminescence Lifetimes in Biological Systems, 543

ANODIC STRIPPING VOLTAMMETRY
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

ANTHELMINTIC
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Rapid Ion-pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801

ANTIBACTERIAL AGENT
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

ANTIBIOTIC
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411
Immunochemical Detection of Antibiotics and Sulfonamides, 2543
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765

ANTIBODY
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631

ANTIHYPERTENSIVE AGENT
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269

ANTIMONY
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109

ANTISERUM PRODUCTION
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395

ANTU
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151

APPLICATIONS
Advances in Scanning Electrochemical Microscopy , 719

AQUA REGIA
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617

AQUEOUS HUMOUR
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575

ARCHAEOLOGY
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909

AROMATIC AMINE
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195

AROMATIC CARBON
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987

AROMATIC COMPOUND
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081

AROMATIC INSECTICIDE
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205

ARRAY SENSOR
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283

ARSENIC
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683

ARTIFICIAL NEURAL NETWORK
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925

ASBESTOS
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689

ASBESTOS FIBRE
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689

ASCORBIC ACID
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119

ASPARTAME
Flow Injection Spectrophotometric Determination of Aspartame in Dietary Products, 2101

ATMOSPHERE
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135

ATMOSPHERIC AEROSOL
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077

ATMOSPHERIC AMMONIA
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839

ATMOSPHERIC MONITORING
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525

ATMOSPHERIC PRESSURE DETECTION
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

ATOMIC ABSORPTION SPECTROMETRY
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

ATOMIC EMISSION SPECTROMETRY
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

ATOMIC FLUORESCENCE SPECTROMETRY
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Environmental Sensors Based on Atomic Fluorescence, 1641
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481

ATOMIC FORCE MICROSCOPY
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943

ATRAZINE
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189

AUGER EMISSION
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601

AUTHENTICITY
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057

AUTOMATED TITRATION
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319

AUTOMATION
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Small-volume Batch-injection Analyser, 1345
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723

AZIDE
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

AZO COMPOUND
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235

AZO DYE
Potentiometric Titrations of Some Azo Dyes Containing a Hydroxy Group With Tetrabutylammonium Hydroxide in Acetonitrile, 2213

BARBITURATE
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

BARIUM
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium. Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Separation of Barium From Associated Elements Using Poly-(dibenzo-18-crown-6) and Column Chromatography, 2033
BARIUM(II) TAURODEOXYCHOLATE
Solubility of Barium(II) Taurodeoxycholate, 469
BARLEY
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
BATCH DETERMINATION
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
BATCH-INJECTION ANALYSIS
Small-volume Batch-injection Analyser, 1345
BEER
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773
BENZO[A]PYRENE
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211
BENZYLPENICILLIN
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
BETA-ADRENERGIC DRUG
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
BETA-AGONIST
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Detection of Clenbuterol Residues in Hair, 2663
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681
BETA CORRECTION SPECTROPHOTOMETRY
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109
BETA-CYCLODEXTRIN
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
BETA-LACTAM
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
BETA SCINTILLATION
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403
BEVERAGE
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
BIAS
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
BILE SALT
Solubility of Barium(II) Taurodeoxycholate, 469
BIMOLECULAR INTERACTION
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
BINARY MIXTURE
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
BIOCHEMISTRY
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N*,*N*′-Disubstituted Amidines, 683
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
BIOCOMPATIBILITY
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
BIOGENIC AMINE
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
BIOGENIC CARBONATE
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
BIOLOGICAL
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785
BIOLOGICAL EFFECT
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
BIOLOGICAL MATERIAL
Sampling of Biological Particles, 53
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Luminescence Lifetimes in Biological Systems, 543
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659

Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Comparison of Two Digestion Methods for the Determination of Selenium in Biological Samples, 1715
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

BIOLOGICAL MONITORING
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051

BIOLOGICAL SCREENING
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415

BIOLOGICAL SYSTEM
Luminescence Lifetimes in Biological Systems, 543

BIOLOGICAL TISSUE
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

BIOMASS
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807

BIOMEDICAL
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283

BIOMINERAL PHOSPHATE
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935

BIOMOLECULE
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939

BIOPROCESS MONITORING
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807

BIOSENSOR
Organic-phase Application of an Amperometric Glucose Sensor, 265
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331

BIOTOXINS
Electrochemistry of Waste Removal—A Review, 781

BIOTRANSFORMATION
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521

BLOOD
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639

BLUE–GREEN ALGAE
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525

BOVINE
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731

BOVINE LIVER
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

BOVINE MILK
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713

BOVINE TISSUE
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553

BOVINE URINE
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

BREAKTHROUGH MEASUREMENT
Sorbents in Sampling. Stability and Breakthrough Measurements, 71

BRL 46470
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043

BROMATE
Determination of Bromate and Chlorate *via* Reduction With Sodium Nitrite, 2141

BROMINATION
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481

BROMINE
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633

BROMOBUTEROL
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

BROMOCRESOL PURPLE
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443

BRONZE
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099

BRUSHITE
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935
BUFORMIN
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
CADMIUM
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Spectrofluorimetric Detection of Zinc and Cadmium with 8--(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805
CAESIUM
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
CALCIUM
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
CALIBRATION
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
Evaluation of the Precision of the Flow Injection Doublet Peak Method, 2087
Is My Calibration Linear?, 2363
CALIX[6]ARENE
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809
CALIXARENE IONOPHORE
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
CANNED FOOD
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
CAPILLARY CELL
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
CAPILLARY ELECTROPHORESIS
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
CAPILLARY ZONE ELECTROPHORESIS
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795
CARBAMATE
Determination of Ethyl *N*-Phenyl Carbamate, 4,4′-Methylenebis-(ethyl phenylcarbamate) and 4,4′-Methylenebis(phenyl isocyanate) by High-performance Liquid Chromatography, 1493
CARBARYL
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
CARBOHYDRATE
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
CARBON
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017
CARBON BEAD
Sampling of Inorganic Gases and Vapours, 57
CARBON BLACK
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
CARBON DIOXIDE
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879
Potential Carbon Dioxide Sensing Based on Recognition by *trans*-[Carbonylhydroxybis-(triphenylphosphine)rhodium(I)] Deposited on Acoustic Wave Devices, 1947
CARBON DIOXIDE REDUCTION
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
CARBON DIOXIDE SENSOR
Potential Carbon Dioxide Sensing Based on Recognition by *trans*-[Carbonylhydroxybis-(triphenylphosphine)rhodium(I)] Deposited on Acoustic Wave Devices, 1947
CARBON ELECTRODE
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
CARBON FIBRE ELECTRODE
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
CARBON PASTE ELECTRODE
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
CARBON TETRACHLORIDE
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641
Spectrophotometric Determination of Carbon Tetrachloride Based on a Photoactivated Colour Reaction, 1899
CARBOXYLIC ACID
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747
CAROTENE
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
CATALYSIS
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213

Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331

CATALYTIC SPECTROFLUORIMETRY
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119

CATALYTIC SPECTROPHOTOMETRY
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113

CATECHINS
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863

CATECHOLAMINE
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303

CATFISH
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757

CATHODIC STRIPPING VOLTAMMETRY
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439

CATION-EXCHANGE RESIN
High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337

CATIONIC SURFACTANT
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473

CATTLE
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801

CEFTAZIDIME
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411

CEFTRIAXONE
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575

CELL BIOLOGY
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925

CELLULOSE ACETATE
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949

CELLULOSE ESTER
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135

CEREAL
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

CERENKOV COUNTING
Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

CERIUM
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

CHALCOGENIDE GLASS ION-SELECTIVE ELECTRODE
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449

CHALCOGENIDE GLASS MEMBRANE
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361

CHARCOAL
Characterization Of The Behaviour Of Nitrogen Dioxide At Low Concentrations in Humid Air Within Adsorbent Charcoal Sampling Media, 2135

CHARGE COUPLED DEVICE
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583

CHARGE TRANSFER
Kinetic–Spectrophotometric Determination of Diquat Based on a Charge-transfer Complex With Cysteine, 1557
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443

CHARM TEST II
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737

CHARRING PROCESS
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473

CHEESE
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161

CHELATING AGENT
Spectrofluorimetric Detection of Zinc and Cadmium with 8-(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

CHELATING SORBENT
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863

CHELATION
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Comparative Study of the Chelation Reaction of *N*-Benzoyl-*N*-phenylhydroxylamine With Tin(II) and Tin(IV), 2247
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795

CHELATION ION CHROMATOGRAPHY
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937

CHEMICAL EXPOSURE
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9

CHEMICAL INDUSTRY WASTE WATER
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195

CHEMICAL IONIZATION
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731

CHEMICAL SENSOR
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925

CHEMICALLY BONDED SORBENT
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519

CHEMICALLY MODIFIED ELECTRODE
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599

CHEMICALLY-SENSITIVE FIELD-EFFECT TRANSISTOR
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275

CHEMILUMINESCENCE
Occurrence, Mechanisms and Analytical Applications of Electrogenerated Chemiluminescence—A Review, 879
The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975
Sensitive Determination of Periodate and Tartaric Acid by Stopped-flow Chemiluminescence Spectrometry, 1819
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829
Characterization Of The Behaviour Of Nitrogen Dioxide At Low Concentrations in Humid Air Within Adsorbent Charcoal Sampling Media, 2135
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

CHEMOMETRICS
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
Tutorial Review. Qualitative Analysis in the Near-infrared Region, 2367
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777

CHERNOBYL
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

CHEWING GUM
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119

CHITOSAN-MODIFIED GLASSY CARBON ELECTRODE
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599

CHLORATE
Determination of Bromate and Chlorate *via* Reduction With Sodium Nitrite, 2141

CHLORINATED PHENOL
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519

CHLOROFORM
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

CHLOROPHENYL
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135

CHLORPROMAZINE–BROMATE REDOX REACTION
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391

CHLORPROMAZINE–HYDROGEN PEROXIDE
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113

CHLORPYRIFOS
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189

CHLORTESTOSTERONE
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529

CHLORTETRACYCLINE
Origin of Chlortetracycline in Pig Tissue, 2603

CHOLESTEROL
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331

CHROMATOGRAPHY
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113
Determination of Trace Amounts of Anionic Impurities in Hydrochloric Acid by Ion Chromatography, 121
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903

Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303
Programmed Two-stage Flow Controller for Supercritical Fluid Chromatography, 1315
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483
Physico-chemical Properties of Oxybutynin, 1489
Determination of Ethyl *N*-Phenyl Carbamate, 4,4′-Methylenebis-(ethyl phenylcarbamate) and 4,4′-Methylenebis(phenyl isocyanate) by High-performance Liquid Chromatography, 1493
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
Separation of Barium From Associated Elements Using Poly-(dibenzo-18-crown-6) and Column Chromatography, 2033
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Endogenic Nortestosterone in Cattle?, 2581
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713

Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

CHROMAZUROL S
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109

CHROMIUM
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477

CHROMIUM OXIDE FILM
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609

CHROMOTROPIC ACID
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077

CHRONOAMPEROMETRY
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849

CHRONOPOTENTIOMETRY
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875

CIMATEROL
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

CIMBUTEROL
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

CIMETIDINE
Determination of Cimetidine in Pure Form and in Dosage Forms Using *N,N*-Dibromodimethylhydantoin, 1375

CINNAMON
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113

CLAM TISSUE
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157

CLASSIFICATION
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971

CLENBUTEROL
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Detection of Clenbuterol Residues in Hair, 2663
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

CLINICAL
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of $(Sodium–oxalate)^-$ and $(Potassium–oxalate)^-$ Ion Pairs in Aqueous Solutions, 377
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Solubility of Barium(II) Taurodeoxycholate, 469
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
Spectrofluorimetric Determination of Nalidixic Acid Based on Host–Guest Complexation With **2e**-Cyclodextrin, 1215
Polarographic Behaviour and Determination of Ranitidine in Pharmaceutical Formulations and Urine, 1371
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557

CLOTHING
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671

CLOXACILLIN
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765

COAL MINE DUST
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971

COASTAL SEA-WATER
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937

COBALT
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787

COBALT PHTHALOCYANINE
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607

COCOA MASS
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171

COLD VAPOUR GENERATION
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481

COLORIMETRY
Spectrophotometric Determination of Carbon Tetrachloride Based on a Photoactivated Colour Reaction, 1899
Specifications of Colour Changes of Complexometric Indicators in the Titration of Zirconium With Ethylenediaminetetraacetic Acid, 2817

COLUMN CHROMATOGRAPHY
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Separation of Barium From Associated Elements Using Poly(dibenzo-18-crown-6) and Column Chromatography, 2033

COMBUSTION
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915

COMMERCIALIZATION
Historical Perspective—History of the Early Commercialization of Ion-selective Electrodes, 2293

COMMON SALT
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417

COMPARATIVE STUDY
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Comparative Study of the Chelation Reaction of *N*-Benzoyl-*N*-phenylhydroxylamine With Tin(II) and Tin(IV), 2247

COMPLEX MIXTURE ANALYSIS
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483

COMPLEX REACTION
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309

COMPLEXATION
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795

COMPLEXING AGENT
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875

COMPLEXOMETRIC TITRATION
Application of Ethylenediaminetetraacetic Acid as a Titrant at High Degrees of Neutralization, 1633
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

COMPLEXOMETRY
Spectroelectrochemistry of Nickel(II) Complexes of *N,N'*-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N,N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Selective Complexometric Determination of Palladium(II) Using DL-Methionine as a Selective Masking Agent, 2217

COMPUTATIONAL CHEMISTRY
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167

CONCENTRATION-DEPENDENT DISTRIBUTION
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981

CONDUCTING POLYMER
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

CONDUCTIVE EPOXY-BASED ION-SELECTIVE ELECTRODE
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263

CONFIDENCE
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161

CONFORMATION
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505

CONJUGATED RESIDUE
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467

CONSISTENCY
Representativeness of Analytical Results, 109

CONTAMINANT
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037

CONTINUOUS DETERMINATION
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237

CONTINUOUS FLOW
Pulse Coulometric Titration in Continuous Flow, 1835
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093

CONTROL CHARTS
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369

COPPER
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361

Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443

COPPER COMPLEX
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443

COPPER ION-SELECTIVE ELECTRODE
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361

COPRECIPITATION
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397

CORTICOSTEROID
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631

COTTON
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779

COULOMETRY
Pulse Coulometric Titration in Continuous Flow, 1835
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879

COUNTING GEOMETRY
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613

CRITICAL MICELLIZATION CONCENTRATION
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087

CROWN ETHER
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235

CRYSTALLINE MEMBRANE
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209

CYANOBACTERIAL TOXIN
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525

CYCLIC VOLTAMMETRY
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
Determination of Silver(I) by Cyclic Voltammetry at Iodine-coated Electrodes, 1975
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979

CYCLODEXTRIN
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Spectrofluorimetric Determination of Nalidixic Acid Based on Host–Guest Complexation With 2e-Cyclodextrin, 1215

CYCLOHEXANE
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793

CYCLOMALTOHEPTAOSE
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081

CYCLOPYRROLONE
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221

CYSTEINE
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Kinetic–Spectrophotometric Determination of Diquat Based on a Charge-transfer Complex With Cysteine, 1557

CYSTINE
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309

DATA HANDLING
Developments in Spectroscopic Data Handling, 539

DATA TRANSFER STANDARDS
Developments in Spectroscopic Data Handling, 539

DECENTRALIZED TESTING
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763

DECONVOLUTION
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847

DEGRADATION
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151

DENSITOMETRY
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737

DEOXYMUGENEIC ACID
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891

DEOXYRIBONUCLEIC ACID
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727

DERIVATIVE SPECTROPHOTOMETRY
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

DERIVATIVE SYNCHRONOUS FLUORESCENCE SPECTROMETRY
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241

DERIVATIZATION
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743

DERIVATIZATION REAGENT
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747

DESIGN
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475

DETECTION LIMIT
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349

DETECTION SENSITIVITY
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

DETECTOR
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349

DETECTOR TUBE
Comparison of Detector Tube Method With European Standards, 99

DEUTERIUM LABELLING
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

DEXAMETHASONE
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557

DIALYSIS
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

DIAZOTIZATION
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381

DICARBOXALDEHYDES
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907

DICLOFENAC
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993

DIET
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757

DIETARY FIBRE
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497

DIETARY PRODUCTS
Flow Injection Spectrophotometric Determination of Aspartame in Dietary Products, 2101

DIETHYLDITHIOCARBAMATE
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891

DIFFERENCE SPECTRA
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195

DIFFERENTIAL CATHODIC STRIPPING VOLTAMMETRY
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067

DIFFERENTIAL DEGRADATION
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183

DIFFERENTIAL-PULSE ADSORPTIVE STRIPPING VOLTAMMETRY
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575

DIFFERENTIAL-PULSE ANODIC STRIPPING VOLTAMMETRY
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585

DIFFERENTIAL-PULSE CATHODIC STRIPPING VOLTAMMETRY
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179

DIFFERENTIAL-PULSE POLAROGRAPHY
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439

DIFFERENTIAL-PULSE STRIPPING VOLTAMMETRY
Determination of Endosulfan by Stripping Voltammetry, 1867

DIFFERENTIAL PULSE VOLTAMMETRY
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

DIFFERENTIAL SCANNING CALORIMETRY
Use of the Latin Square Design to Study the Influence of the Experimental Parameters on Erucamide Differential Scanning Calorimetric Curves, 1547

DIFFUSE REFLECTANCE INFRARED FOURIER TRANSFORM SPECTROSCOPY
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671

DIFFUSION
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

DIFFUSIVE AIR SAMPLING
Diffusive Air Sampling of Reactive Compounds. A Review, 79

DIFFUSIVE SAMPLER
Diffusive Sampling Using Tube-type Samplers, 75
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85

DIGESTION
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Comparison of Two Digestion Methods for the Determination of Selenium in Biological Samples, 1715
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377

DIGITAL SIGNAL PROCESSING
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847

DIMETHOATE
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387

DIMETHYLDICYCLOPENTADIENE
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731

1,1,DIMETHYLHYDRAZINE
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907

DIODE-ARRAY SPECTROPHOTOMETRY
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541

DIPICOLINIC ACID
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329

DIQUAT
Kinetic–Spectrophotometric Determination of Diquat Based on a Charge-transfer Complex With Cysteine, 1557

DIRECT ATOMIZATION
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397

DIRECT DETERMINATION
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033

DIRECT-PYROLYSIS TECHNIQUE
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693

DIRECT READING INSTRUMENT
Direct-reading Instruments for Aerosols. A Review, 35

DISCRIMINANT ANALYSIS
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367

DISORDERED SOLIDS
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641

DISPERSION
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011

DISPOSABLE ELECTRODE
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431

DISPOSABLE SENSOR
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331

DISSOCIATION ENHANCED FLUOROIMMUNOASSAY
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565

DISUBSTITUTED AMIDINE
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N'*-Disubstituted Amidines, 683

DITHIZONE
Sub-stoichiometric Isotope Dilution Analysis for the Determination of Selenium by Liquid Scintillation Counting, 2067

DIURETIC
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359

DIURON
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189

DODECYLBENZENESULFONATE
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473

DOPAMINE
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459

DOPING
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697

DOUBLET PEAK METHOD
Evaluation of the Precision of the Flow Injection Doublet Peak Method, 2087

DRIFT SPECTROSCOPY
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671

DRINKING WATER
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025

DRUG
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Polarographic Behaviour and Determination of Ranitidine in Pharmaceutical Formulations and Urine, 1371
Determination of Cimetidine in Pure Form and in Dosage Forms Using *N,N*-Dibromodimethylhydantoin, 1375
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Sensitive Determination of Periodate and Tartaric Acid by Stopped-flow Chemiluminescence Spectrometry, 1819
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Detection of Clenbuterol Residues in Hair, 2663
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Melanin as an Adsorbent for Drug Residues, 2691
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749

Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

DRUG ABUSE
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Detection of Clenbuterol Residues in Hair, 2663
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

DRUG RESIDUE
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521
Immunochemical Detection of Antibiotics and Sulfonamides, 2543
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Origin of Chlortetracycline in Pig Tissue, 2603
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Detection of Clenbuterol Residues in Hair, 2663
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Melanin as an Adsorbent for Drug Residues, 2691
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

DUST
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

DYE
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467
Specifications of Colour Changes of Complexometric Indicators in the Titration of Zirconium With Ethylenediaminetetraacetic Acid, 2817

DYSPROSIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103

EFFICIENCY
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051

EFFLUENT TREATMENT
Electrochemistry of Waste Removal—A Review, 781

ELECTRICAL DISCHARGE
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

ELECTROANALYTICAL
The Future of Electroanalytical Instrumentation, 874

ELECTROCATALYSIS
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Novel View of the Electrochemistry of Gold, 841
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
ELECTROCHEMICAL DETECTION
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
ELECTROCHEMICAL IMMUNOASSAY
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
ELECTROCHEMICAL MONITORING
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
ELECTROCHEMICAL QUARTZ CRYSTAL MICROBALANCE
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167
ELECTROCHEMICAL REACTOR
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
ELECTROCHEMISTRY
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Hand-held Instrumentation for Environmental Monitoring, 187
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197
Selective Membrane Electrodes for Analysis, 203
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Organic-phase Application of an Amperometric Glucose Sensor, 265
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323
Spectroelectrochemistry of Nickel(II) Complexes of *N,N'*-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N,N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Advances in Scanning Electrochemical Microscopy , 719
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
Electrochemistry of Waste Removal—A Review, 781
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Novel View of the Electrochemistry of Gold, 841
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
The Future of Electroanalytical Instrumentation, 874
Amperometric Arrays in Flowing Solution Analysis, 953
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Small-volume Batch-injection Analyser, 1345
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603

Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Pulse Coulometric Titration in Continuous Flow, 1835
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Determination of Endosulfan by Stripping Voltammetry, 1867
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
Determination of Silver(I) by Cyclic Voltammetry at Iodine-coated Electrodes, 1975
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199
Rubidium Ion-selective Electrodes Based on Indanopyrazolo[1,5-*a*]pyrimidines, 2205
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Potentiometric Titrations of Some Azo Dyes Containing a Hydroxy Group With Tetrabutylammonium Hydroxide in Acetonitrile, 2213
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Recent Developments in Piezoelectric Immunosensors—A Review, 2279
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
Historical Perspective—History of the Early Commercialization of Ion-selective Electrodes, 2293
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805
Past, Present and Future Contributions of Microelectrodes to Analytical Studies Employing Voltammetric Detection, 1R

ELECTRODE

Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Hand-held Instrumentation for Environmental Monitoring, 187
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
Selective Membrane Electrodes for Analysis, 203
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323
Spectroelectrochemistry of Nickel(II) Complexes of *N*,*N*′-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N*,*N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763

Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Determination of Endosulfan by Stripping Voltammetry, 1867
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Determination of Silver(I) by Cyclic Voltammetry at Iodine-coated Electrodes, 1975
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Rubidium Ion-selective Electrodes Based on Indanopyrazolo[1,5-*a*]pyrimidines, 2205
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Recent Developments in Piezoelectric Immunosensors—A Review, 2279
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
Historical Perspective—History of the Early Commercialization of Ion-selective Electrodes, 2293
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427
Past, Present and Future Contributions of Microelectrodes to Analytical Studies Employing Voltammetric Detection, 1R

ELECTRODE ARRAY
Amperometric Arrays in Flowing Solution Analysis, 953

ELECTRODE FUNCTION
Electrode Function of Selective Membranes for Anions of Phthalic Acid Isomers, 1619

ELECTRODE GEOMETRY
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791

ELECTRODIALYSIS
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

ELECTROGENERATED CHEMILUMINESCENCE
Occurrence, Mechanisms and Analytical Applications of Electrogenerated Chemiluminescence—A Review, 879

ELECTROGENERATED FILM
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735

ELECTROLUMINESCENCE
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

ELECTROLYTE
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057

ELECTRON-CAPTURE DETECTOR
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay $^{57}Ni \rightarrow {}^{57}Co \rightarrow {}^{57}Fe$ in the Solid State, 589

ELECTRON MICROPROBE
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971

ELECTRON MICROSCOPY
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

ELECTRON PARAMAGNETIC RESONANCE
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

ELECTROPHORESIS
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795

ELECTROSPRAY LIQUID CHROMATOGRAPHY
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
ELECTROSPRAY MASS SPECTROMETRY
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
ELECTROSYNTHESIS
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRY
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
ELLIPSOMETRY
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
EMISSION MÖSSBAUER SPECTROSCOPY
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589
ENDOSULFAN
Determination of Endosulfan by Stripping Voltammetry, 1867
ENERGY DISPERSIVE X-RAY ANALYSIS
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
ENHANCED WAVEGUIDE RAMAN SPECTROSCOPY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
ENSEMBLE AVERAGING
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
ENVIRONMENTAL
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Sampling of Biological Particles, 53
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Diffusive Sampling Using Tube-type Samplers, 75
Diffusive Air Sampling of Reactive Compounds. A Review, 79
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Comparison of Detector Tube Method With European Standards, 99
Low-level Particle Sampling, 103
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Hand-held Instrumentation for Environmental Monitoring, 187
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519

Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Environmental Sensors Based on Atomic Fluorescence, 1641
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Supercritical Fluid Extraction of Analytes from Environmental Samples—A Review, 2381
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

ENVIRONMENTAL MONITORING
Hand-held Instrumentation for Environmental Monitoring, 187

ENVIRONMENTAL SENSOR
Environmental Sensors Based on Atomic Fluorescence, 1641

ENZYME
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Interdigitated Array Microelectrodes for the Determination of Enzyme Activities, 1245
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199

ENZYME ASSAY
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

ENZYME ELECTRODE
Selective Membrane Electrodes for Analysis, 203
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849

ENZYME IMMUNOASSAY
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Detection of Clenbuterol Residues in Hair, 2663
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765

ENZYME-LINKED IMMUNOSORBENT ASSAY
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651

ENZYME SENSOR
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001

EPOXY BIOCOMPOSITE
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455

EQUILIBRIUM CONSTANT
Exact Equations for the Equilibrium Constants of Single Intermolecular Complexes in Terms of Spectrophotometric Data, 145

EQUINE URINE
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

ERBIUM
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

ERROR
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161

ERROR PROPAGATION
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981

ERUCAMIDE
Use of the Latin Square Design to Study the Influence of the Experimental Parameters on Erucamide Differential Scanning Calorimetric Curves, 1547

ESSENTIAL OIL
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483

ESTRADIOL
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623

ETHANOL
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843

ETHYLATION
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429

ETHYLENEDIAMINETETRAACETIC ACID
Application of Ethylenediaminetetraacetic Acid as a Titrant at High Degrees of Neutralization, 1633

EUROPEAN STANDARD
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Comparison of Detector Tube Method With European Standards, 99

EUROPIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
EVANESCENT WAVE
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
EVAPORATIVE LIGHT-SCATTERING DETECTION
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
EVOLVED GAS ANALYSIS
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
EXCIMER
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
EXCITED STATE
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
EXPERIMENTAL DESIGN
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
EXPERIMENTAL PARAMETERS
Use of the Latin Square Design to Study the Influence of the Experimental Parameters on Erucamide Differential Scanning Calorimetric Curves, 1547
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
EXTRACTION
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071
Supercritical Fluid Extraction of Analytes from Environmental Samples—A Review, 2381
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
EXTRACTION CHROMATOGRAPHY
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
EXTRACTION EFFICIENCY
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
EXTRACTIVE SCINTILLATOR
Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465
FACTOR VARIATION
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613
FACTORIAL DESIGN
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
FAECES
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
FAST ATOM BOMBARDMENT MASS SPECTROMETRY
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
FAST-PROTEIN ANION EXCHANGE LIQUID CHROMATOGRAPHY
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
FAT
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
FEEDINGSTUFFS
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
FENAMIPHOS
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
FENBENDAZOLE
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
FENOTEROL
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
FENTON OXIDATION
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903
FERMENTATION
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
FERROALLOY
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
FIBRES
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
FIBROUS AEROSOL
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
FIBROUS DUST
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
FIG
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813
FIGURES OF MERIT
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
FILM
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
FILM-COATED ELECTRODE
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
FILTER
Sampling of Biological Particles, 53
FILTER SAMPLER
Diffusive Air Sampling of Reactive Compounds. A Review, 79
FILTERING
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
FINE AEROSOL
Measurement of Fine Aerosols in Workplaces. A Review, 19

FIRE ASSAY
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617

FIRST-DERIVATIVE SPECTRA
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779

FIRST-DERIVATIVE SPECTROPHOTOMETRY
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099

FISH
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757

FISH TISSUE
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227

FLAGELLAR MOTOR
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943

FLAME
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

FLAME ATOMIC ABSORPTION SPECTROMETRY
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705

FLAME PHOTOMETRY
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475

FLASH CHROMATOGRAPHY
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909

FLAVOCYTOCHROME
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175

FLAVOUR COMPOUND
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113

FLAVOUR ENHANCER
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183

FLEXIBLE SOLUTE
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505

FLOTATION–DISSOLUTION
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387

FLOW ANALYSIS
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Pulse Coulometric Titration in Continuous Flow, 1835
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Continuous Liquid–Liquid Extraction With On-line Monitoring for the Determination of Anionic Surfactants in Waters, 2097

FLOW CELL
Amperometric Arrays in Flowing Solution Analysis, 953
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959

FLOW CONTROLLER
Programmed Two-stage Flow Controller for Supercritical Fluid Chromatography, 1315

FLOW DETERMINATION
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279

FLOW INJECTION
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Photochemical Spectrophotometric Determination of Riboflavin and Riboflavin 5′-Phosphate by Manual and Flow Injection Methods, 1199
Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
Evaluation of the Precision of the Flow Injection Doublet Peak Method, 2087
Flow Injection Spectrophotometric Determination of Aspartame in Dietary Products, 2101
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

FLOW INJECTION HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRY
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333

FLOW INJECTION IMMUNOASSAY
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
FLOW SYSTEM
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
FLOW-THROUGH CELL
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
FLOW-THROUGH DEVICE
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
FLOW-THROUGH SENSOR
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263
FLOWING SOLUTION
Amperometric Arrays in Flowing Solution Analysis, 953
FLOWING STREAM
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
Amperometric Arrays in Flowing Solution Analysis, 953
FLUORAL-P
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413
FLUORESCENCE
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Experimental Correction for the Inner-filter Effect in Fluorescence Spectra, 417
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Spectrofluorimetric Detection of Zinc and Cadmium with 8--(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561
Environmental Sensors Based on Atomic Fluorescence, 1641
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043
Selective Fluorescence Quenching to Discriminate Between Alternant and Non-alternant Polycyclic Aromatic Hydrocarbons: Acephenanthrylene Derivatives as Exceptions to the Nitromethane Quenching Rule, 2129
Effect of Surfactants in the Determination of Orotic Acid in Aqueous Solutions by Sensitized Terbium Fluorescence, 2453
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
FLUORESCENCE DERIVATIZATION
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907
FLUORESCENCE DETECTION
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413
FLUORESCENCE IMMUNOASSAY
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
FLUORESCENCE MICROSCOPY
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
FLUORESCENCE QUENCHING
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Selective Fluorescence Quenching to Discriminate Between Alternant and Non-alternant Polycyclic Aromatic Hydrocarbons: Acephenanthrylene Derivatives as Exceptions to the Nitromethane Quenching Rule, 2129
FLUORESCENCE SPECTRA
Experimental Correction for the Inner-filter Effect in Fluorescence Spectra, 417
FLUORESCENCE SPECTROMETRY
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
FLUORESCENT ADDUCT
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
FLUORESCENT LABELLING REAGENT
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
FLUORIDE
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
FLUORIDE ISOCONCENTRATION
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427
FLUOROIMMUNOASSAY
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813
FOLPET
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
FOOD
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511

Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765

FOOD PROCESSING
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765

FORMALDEHYDE
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237

FOUNTAIN CELL
The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975

FOURIER TRANSFORM
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659

FOURIER TRANSFORM INFRARED SPECTROMETRY
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773

FOURIER TRANSFORM RAMAN SPECTROSCOPY
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563

FRAGMENTATION
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891

FREE RADICAL
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213

FRESHWATER
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

FROZEN WATER
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579

FRUIT JUICE
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571

FUEL
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

FUNCTIONALIZED CYCLODEXTRIN
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181

FUNGI
Sampling of Biological Particles, 53

FUNGICIDE
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183

GADOLINIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103

GALLIC ACID
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237

GALLIUM
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

GALVANOSTATIC STRIPPING
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355

GAMMA-RAY SPECTROMETRY
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421

GARLIC
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475

GAS ANALYSIS
Sampling of Inorganic Gases and Vapours, 57
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389

GAS CHROMATOGRAPHY
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Endogenic Nortestosterone in Cattle?, 2581
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697

GAS CHROMATOGRAPHY–MASS SPECTROMETRY
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

GAS DIFFUSION
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

GAS MIXTURE
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665

GAS MONITORING
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525

GAS SENSOR
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173

GASEOUS FORMALDEHYDE
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237

GAS–LIQUID CHROMATOGRAPHY
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497

GENTISIC ACID
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915

GIBBS FREE ENERGY
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191

GLASS MEMBRANE
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361

GLASSES
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441

GLASSY CARBON
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Amperometric Arrays in Flowing Solution Analysis, 953
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Determination of Endosulfan by Stripping Voltammetry, 1867

GLASSY CARBON ELECTRODE
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Determination of Endosulfan by Stripping Voltammetry, 1867

GLUCOAMYLASE
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939

GLUCOSE
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855
The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849

GLUCOSE SENSOR
Organic-phase Application of an Amperometric Glucose Sensor, 265

GLUTATHIONE
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343

GOLD
Novel View of the Electrochemistry of Gold, 841

Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

GOLD COMPLEX
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

GOLD MICROELECTRODE
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239

GRAPHITE ELECTRODE
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243

GRAPHITE EPOXY RESIN
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455

GRATING COUPLER
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437

GROUNDWATER
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189

GROWTH PROMOTER
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

GYPSUM
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421

H-POINT STANDARD ADDITIONS
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123

HAIR
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
Detection of Clenbuterol Residues in Hair, 2663

HALOBACTERIA
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943

HANGING MERCURY DROP ELECTRODE
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439

HAZARD
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759

HEALTH
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3

HEPATOCYTE METABOLISM
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549

HERBICIDE
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431

HIGH-FIELD MAGNETIC RESONANCE
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641

HIGH-PERFORMANCE CHELATION ION CHROMATOGRAPHY
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937

HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483
Physico-chemical Properties of Oxybutynin, 1489
Determination of Ethyl *N*-Phenyl Carbamate, 4,4′-Methylenebis-(ethyl phenylcarbamate) and 4,4′-Methylenebis(phenyl isocyanate) by High-performance Liquid Chromatography, 1493
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037

Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749

HIGH-PERFORMANCE THIN LAYER CHROMATOGRAPHY
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655

HIGH-PRESSURE ASHER
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017

HIGH-PRESSURE LIQUID CHROMATOGRAPHY
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713

HIGH-PURITY LEAD
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451

HISTORICAL
The Future of Electroanalytical Instrumentation, 874
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Historical Perspective—History of the Early Commercialization of Ion-selective Electrodes, 2293

HOLMIUM
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

HOMOGENEITY
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109

HORMONE
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Endogenic Nortestosterone in Cattle?, 2581
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

HORSE URINE
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701

HORSERADISH PEROXIDASE
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213

HOST–GUEST COMPLEXATION
Spectrofluorimetric Determination of Nalidixic Acid Based on Host–Guest Complexation With 2e-Cyclodextrin, 1215

HOT-BALL MODEL
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789

HOT PARTICLE
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

HUMAN METABOLISM
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

HUMAN PLASMA
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043

HUMAN SALIVA
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395

HUMAN SERUM
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199

HUMAN SKIN
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563

HUMAN URINE
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395

HUMIC ACID
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141

HUMIDITY
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Characterization Of The Behaviour Of Nitrogen Dioxide At Low Concentrations in Humid Air Within Adsorbent Charcoal Sampling Media, 2135

HYDRATED OXIDE
Novel View of the Electrochemistry of Gold, 841
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337

HYDRAZINE
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907

HYDRIDE GENERATION
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Environmental Sensors Based on Atomic Fluorescence, 1641
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659

Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRY

Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669

HYDROBROMIC ACID

Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633

HYDROCHLORIC ACID

Determination of Trace Amounts of Anionic Impurities in Hydrochloric Acid by Ion Chromatography, 121
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991

HYDROGEN

All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

HYDROGEN BONDING

Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N'*-Disubstituted Amidines, 683

HYDROGEN PEROXIDE

The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251

HYDROXYAPATITE

Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935

HYPOBROMITE

Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829

HYPOXANTHINE

Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183

IMAGING

Luminescence Lifetimes in Biological Systems, 543
Advances in Scanning Electrochemical Microscopy , 719
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943

IMIDOCARB

Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549

IMMOBILIZED ENZYME

Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175

IMMOBILIZED REAGENT

Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
Spectrofluorimetric Detection of Zinc and Cadmium with 8-(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Melanin as an Adsorbent for Drug Residues, 2691

IMMOBILIZED SULFITE OXIDASE

Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093

IMMUNOAFFINITY

Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801

IMMUNOASSAY

Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395
Immunochemical Detection of Antibiotics and Sulfonamides, 2543
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Detection of Clenbuterol Residues in Hair, 2663
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765
Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

IMMUNOENZYMOMETRIC ASSAY

Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

IMMUNOEXTRACTION

Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

IMMUNOFILTRATION

Immunochemical Detection of Antibiotics and Sulfonamides, 2543

IMMUNOLOGICAL REAGENT

Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769

IMMUNOSENSOR

Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
Recent Developments in Piezoelectric Immunosensors—A Review, 2279

IMPURITY DETERMINATION

Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023

***IN VIVO* VOLTAMMETRY**

Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193

INACTIVATION

Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213

INDICATOR

pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Specifications of Colour Changes of Complexometric Indicators in the Titration of Zirconium With Ethylenediaminetetraacetic Acid, 2817

INDIGO CARMINE

Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459

INDIUM
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETRY
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

INDUSTRIAL
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195

INDUSTRIAL EFFLUENT
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195

INFANT FORMULA
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397

INFRARED SPECTROMETRY
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Developments in Spectroscopic Data Handling, 539
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N'*-Disubstituted Amidines, 683
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

INHIBITING FACTOR
Stabilization of the Peptide Conformation on the Micellar Surface, 647

INJECTION SITE
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655

INNER-FILTER EFFECT
Experimental Correction for the Inner-filter Effect in Fluorescence Spectra, 417

INORGANIC GASES
Sampling of Inorganic Gases and Vapours, 57

INOSINIC ACID
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183

INSECTICIDE
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407

INSTRUMENTATION
Hand-held Instrumentation for Environmental Monitoring, 187
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
The Future of Electroanalytical Instrumentation, 874

INTEGRATED OPTICS
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437

INTERDIGITATED ARRAY
Interdigitated Array Microelectrodes for the Determination of Enzyme Activities, 1245

INTERFERENCE
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

INTERFERENCE REMOVAL
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033

INTERFERENCE STUDY
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033

Spectrophotometric Determination of Vanadium(IV) and Vanadium(V) in Each Other's Presence. A Review, 1263
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705

INTERLABORATORY COMPARISON
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383

INTERLABORATORY QUALITY CONTROL
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531

INTERLABORATORY STUDY
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531

INTERMOLECULAR COMPLEX
Exact Equations for the Equilibrium Constants of Single Intermolecular Complexes in Terms of Spectrophotometric Data, 145

INTERNAL STANDARD
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

INTRAMOLECULAR EXCIMER
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505

IODIDE
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251

IODIDE QUENCHING
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081

IODINE
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417

IODINE-131 TRACER
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417

ION-ASSOCIATION COMPLEX
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

ION CHROMATOGRAPHY
Determination of Trace Amounts of Anionic Impurities in Hydrochloric Acid by Ion Chromatography, 121
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759

ION EXCHANGE
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187

ION-EXCLUSION CHROMATOGRAPHY
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409

ION MEASUREMENT
Solubility of Barium(II) Taurodeoxycholate, 469

ION-PAIR FORMATION
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377

ION-PAIR LIQUID CHROMATOGRAPHY
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801

ION-SELECTIVE ELECTRODE
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Selective Membrane Electrodes for Analysis, 203
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Copper Ion-selective Electrode Based on a Chalcogenide Glass Membrane, 1361
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993
Rubidium Ion-selective Electrodes Based on Indanopyrazolo[1,5-*a*]pyrimidines, 2205
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
Historical Perspective—History of the Early Commercialization of Ion-selective Electrodes, 2293
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

ION-SELECTIVE FIELD-EFFECT TRANSISTOR
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275

ION TRAP MASS SPECTROMETRY
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533

IONIC REACTION MECHANISM
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

ION–MOLECULE REACTION
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533

IONOPHORE FILM
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287

IRON
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075

IRON OXIDE
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

ISOCYANATE SAMPLING
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89

ISOELECTRIC FOCUSING
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341

ISOLATED π-SYSTEM
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043

ISOMER
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731

ISOPHORONEDIAMINE
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051

ISOPROTURON
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431

ISOTOPE
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537

ISOTOPE DILUTION ANALYSIS
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417
Sub-stoichiometric Isotope Dilution Analysis for the Determination of Selenium by Liquid Scintillation Counting, 2067
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071

ISOTOPE FRACTIONATION
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915

ISOTOPE RATIO MASS SPECTROMETRY
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915

ISOTOPE RATIO MONITORING
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909

ITALIAN CHEESE
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161

IVERMECTIN RESIDUE
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227

KIDNEY FAT
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635

KIDNEY TISSUE
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Origin of Chlortetracycline in Pig Tissue, 2603
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

KINETIC
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077
Kinetic–Spectrophotometric Determination of Diquat Based on a Charge-transfer Complex With Cysteine, 1557
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789

KINETIC ISOTOPE EFFECT
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915

KINETIC THERMOMETRY
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077

LABORATORY COMPUTING
Tutorial Review. Object oriented Programming on Personal Computers, 2149

LACK-OF-FIT
Is My Calibration Linear?, 2363

LACTATE
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175

LACTATE DEHYDROGENASE
Sensitive Method for Measuring Lactate Dehydrogenase Activity in Human Serum by Differential-pulse Polarography, 2199

LACTOSE
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251

LANGMUIR MONOLAYER
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235

LANTHANIDE
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

LANTHANOID
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891

LANTHANOID ION
Capillary Zone Electrophoresis of Lanthanoid Elements After Complexation with Aminopolycarboxylic Acids, 2795

LANTHANUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103

LASER
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

LASER ABLATION ATOMIC EMISSION SPECTROMETRY
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441

LASER DESORPTION
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579

LASER-INDUCED FLUORESCENCE
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
4-(1-Methylphenanthro[9,10-*d*]imidazol-2-yl)benzohydrazide as Derivatization Reagent for Carboxylic Acids in High-performance Liquid Chromatography With Conventional and Laser-induced Fluorescence Detection, 1747

LASER-INDUCED PHOTOACOUSTIC SPECTROMETRY
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561

LASER MASS SPECTROMETRY
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579

LASER PHOTOACOUSTIC SPECTROMETRY
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525

LASER PHOTOIONIZATION
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571

LATIN SQUARE DESIGN
Use of the Latin Square Design to Study the Influence of the Experimental Parameters on Erucamide Differential Scanning Calorimetric Curves, 1547

LEAD
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

LEAD HYDRIDE
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647

LEAD IONOPHORE
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287

LEAST SQUARES
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177

LEGISLATION
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627

LEVAMISOLE
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705

LIGHT SCATTERING DETECTION
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921

LINEAR REGRESSION
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779

LIPID
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909

LIPOIC ACID
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067

LIQUID CHROMATOGRAPHY
Evaluation of Amperometric Detection at a Glassy Carbon Electrode for the Liquid-Chromatographic Determination of Antihypertensive Substances, 269
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483

Physico-chemical Properties of Oxybutynin, 1489
Determination of Ethyl *N*-Phenyl Carbamate, 4,4′-Methylenebis-(ethyl phenylcarbamate) and 4,4′-Methylenebis(phenyl isocyanate) by High-performance Liquid Chromatography, 1493
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

LIQUID CHROMATOGRAPHY–MASS SPECTROMETRY
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

LIQUID MEMBRANE
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

LIQUID-PHASE MEASUREMENT
Recent Developments in Piezoelectric Immunosensors—A Review, 2279

LIQUID SAMPLER
Diffusive Air Sampling of Reactive Compounds. A Review, 79

LIQUID SCINTILLATION COUNTING
Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465
Sub-stoichiometric Isotope Dilution Analysis for the Determination of Selenium by Liquid Scintillation Counting, 2067
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071

LIQUID–LIQUID EXTRACTION
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Continuous Liquid–Liquid Extraction With On-line Monitoring for the Determination of Anionic Surfactants in Waters, 2097

LIVER
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687

LIVER TISSUE
Origin of Chlortetracycline in Pig Tissue, 2603

LOW-DENSITY POLYETHYLENE BOTTLES
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037

LUMINESCENCE
Luminescence Lifetimes in Biological Systems, 543
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

MABUTEROL
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

MACROCYCLE
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315

MACROLIDE
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577

MAGNESIUM
Application of Ethylenediaminetetraacetic Acid as a Titrant at High Degrees of Neutralization, 1633

MALONDIALDEHYDE
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047

MAMMALIAN SKIN
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563

MANGANESE
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075

MAPENTEROL
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

MARCUS THEORY
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827

MARINE PARTICULATE
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125

MARINE SAMPLE
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

MASKING AGENT
Selective Complexometric Determination of Palladium(II) Using DL-Methionine as a Selective Masking Agent, 2217

MASS-SELECTIVE DETECTION
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

MASS SPECTROMETRY
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181

Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Tandem Mass Spectrometry for the Determination of Deoxyribonucleic Acid Damage by Polycyclic Aromatic Hydrocarbons. Plenary Lecture, 497
Impact of Mass Spectrometry in Surface Analysis, 513
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533
Developments in Spectroscopic Data Handling, 539
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Endogenic Nortestosterone in Cattle?, 2581
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

MASS SPECTROMETRY–MASS SPECTROMETRY
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891

MATCHED POTENTIAL METHOD
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309

MATHEMATICAL MODEL
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037

MATHEMATICS
Exact Equations for the Equilibrium Constants of Single Intermolecular Complexes in Terms of Spectrophotometric Data, 145
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777

MATIX SOLID-PHASE DISPERSION
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467

MATRIX EXCHANGE
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057

MATRIX ISOPOTENTIAL SYNCHRONOUS FLUORESCENCE SPECTROMETRY
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915

MATRIX SOLID PHASE DISPERSION
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

MAXIMUM RESIDUE LIMIT
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521

Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595

MEASUREMENT STABILITY
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369

MEASURING STRATEGY
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3

MEAT
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

MECHANISM
Occurrence, Mechanisms and Analytical Applications of Electrogenerated Chemiluminescence—A Review, 879
Comparative Study of the Chelation Reaction of *N*-Benzoyl-*N*-phenylhydroxylamine With Tin(II) and Tin(IV), 2247

MEDICAL
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N'*-Disubstituted Amidines, 683

MEDICINAL ADDITIVES
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483

MELANIN
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
Melanin as an Adsorbent for Drug Residues, 2691

MELATONIN
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193

MELDOLA'S BLUE
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253

MELTING POINT
Use of the Latin Square Design to Study the Influence of the Experimental Parameters on Erucamide Differential Scanning Calorimetric Curves, 1547

MEMBRANE
Selective Membrane Electrodes for Analysis, 203
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Electrode Function of Selective Membranes for Anions of Phthalic Acid Isomers, 1619
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809

MEMBRANE ELECTRODE
Selective Membrane Electrodes for Analysis, 203
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

MEMBRANE FILTER
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135

MEMBRANE SEPARATION
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

MERCURY
Environmental Sensors Based on Atomic Fluorescence, 1641
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481

MERCURY ELECTRODE
Hand-held Instrumentation for Environmental Monitoring, 187
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603

MERCURY HYDRIDE
Environmental Sensors Based on Atomic Fluorescence, 1641

METABOLISM
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

METABOLITE
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

METABORATE FUSION
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131

METAL
Hand-held Instrumentation for Environmental Monitoring, 187
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759

Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187

METAL ION
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875

METAL ION UPTAKE
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677

METAPROTERENOL
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979

METHANE
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

METHIONINE
Selective Complexometric Determination of Palladium(II) Using DL-Methionine as a Selective Masking Agent, 2217

METHYL ESTER
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921

METHYLENE BLUE
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387

METHYLENE SELECTIVITY
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303

METHYLPYRIDINE
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903

METHYLTHYMOL BLUE
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

MICELLAR CATALYSIS
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

MICELLAR ELECTROKINETIC CHROMATOGRAPHY
A Retention Index For Micellar Electrokinetic Chromatography, 353

MICELLAR MEDIUM
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093
Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241

MICELLE
A Retention Index For Micellar Electrokinetic Chromatography, 353
Solubility of Barium(II) Taurodeoxycholate, 469
Stabilization of the Peptide Conformation on the Micellar Surface, 647
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093

MICELLIZATION
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903

MICHAELIS–MENTEN KINETICS
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855

MICRO-EXTRACTION
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455

MICRO-ORGANISM
Sampling of Biological Particles, 53

MICROBAND ARRAY
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303

MICROBIAL WHOLE CELL
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197

MICROCOLUMN
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

MICROCRYSTALLINE NAPHTHALENE
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567

MICROCYSTINS
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525

MICROELECTRODE
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239

Interdigitated Array Microelectrodes for the Determination of Enzyme Activities, 1245
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Past, Present and Future Contributions of Microelectrodes to Analytical Studies Employing Voltammetric Detection, 1R

MICROFABRICATION
Interdigitated Array Microelectrodes for the Determination of Enzyme Activities, 1245
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283

MICROSCOPY
Advances in Scanning Electrochemical Microscopy , 719
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943

MICROSENSOR
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275

MICROTITRIMETRY
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209

MICROVOLTAMMETRY
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767

MICROWAVE DIGESTION
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Comparison of Two Digestion Methods for the Determination of Selenium in Biological Samples, 1715
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081

MICROWAVE DISSOLUTION
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705

MICROWAVE HEATED DIGESTION CHAMBER
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003

MICROWAVE HEATING
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075

MICROWAVE REDUCTION
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

MICROWAVE SORPTION
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477

MILK
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801

MINERAL
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Separation of Barium From Associated Elements Using Poly-(dibenzo-18-crown-6) and Column Chromatography, 2033
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

MINERAL PREMIX
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361

MIXED MICELLE
A Retention Index For Micellar Electrokinetic Chromatography, 353

MOBILE SPECIES TRANSFER
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167

MODEL PROCESS STREAMS
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541

MODIFIED ALUMINA
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553

MODIFIED CARBON PASTE ELECTRODE
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859

MODIFIED ELECTRODE
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439

MOISTURE
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001

MOISTURE ADSORBENT
Determination of the Oil Content of Rapeseed by Supercritical Fluid Extraction, 1471

MOLECULAR INTERACTION
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087

MOLECULAR SPECTROMETRY
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Impact of Mass Spectrometry in Surface Analysis, 513
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Developments in Spectroscopic Data Handling, 539

Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641
Stabilization of the Peptide Conformation on the Micellar Surface, 647
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N'*-Disubstituted Amidines, 683
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773

MOLYBDENUM
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903

MOLYBDENUM TELLURIDE
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727

MOLYBDOPHOSPHO COMPLEX
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387

MONOAMINE
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767

MONOLAYER
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235

MONOMETHYLHYDRAZINE
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907

MONOSACCHARIDE
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125

MONOTERPENE
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85

MORPHOLINE-4-CARBODITHIOATE
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567

MÖSSBAUER
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589

MUGINEIC ACID
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891

MULTI-ELEMENT ANALYSIS
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

MULTI-PHOTON IONIZATION
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

MULTI-RESIDUE ANALYSIS
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

MULTICOMPONENT ANALYSIS
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541

MULTIDIMENSIONAL GAS CHROMATOGRAPHY
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483

MULTIPLE STAGE MASS SPECTROMETRY
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533

MULTIRESIDUE EXTRACTION TECHNIQUE
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467

MULTIVARIATE CALIBRATION
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779

MUSCLE TISSUE
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Origin of Chlortetracycline in Pig Tissue, 2603
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

MUSSEL SHELL
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

MYO-INOSITOL
Determination of Free myo-Inositol in Milk and Infant Formula by High-performance Liquid Chromatography, 397
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

NADH SENSOR
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
NAFION-MODIFIED CARBON PASTE ELECTRODE
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
NALIDIXIC ACID
Spectrofluorimetric Determination of Nalidixic Acid Based on Host–Guest Complexation With 2e-Cyclodextrin, 1215
NANDROLONE
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
NAPHTHALENE
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141
NAPHTHALENE-2,3-DICARBOXALDEHYDE
Fluorescent Detection of Hydrazine, Monomethylhydrazine, and 1,1-Dimethylhydrazine by Derivatization With Aromatic Dicarbaldehydes, 1907
NAPHTHALENE CONTAMINATION
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
NAPHTHYLAMINE
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
NAPROXEN
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093
NAPTALAM
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
NATURAL WATER
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
NEAR-INFRARED REFLECTANCE SPECTROSCOPY
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
NEAR-INFRARED SPECTROSCOPY
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367
NEDOCROMIL SODIUM
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439
NEGATIVE CHEMICAL IONIZATION
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
NEGATIVE ION CHEMICAL IONIZATION
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
NEODYMIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463
NEURAL NETWORK
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925
NEUROCHEMICAL DYNAMICS *IN VIVO*
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
NEUROTRANSMITTER
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
NEUTRAL CARRIER
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363
Rubidium Ion-selective Electrodes Based on Indanopyrazolo[1,5-*a*]pyrimidines, 2205
NEUTRAL SUGARS
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511
NEUTRON ACTIVATION ANALYSIS
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407
NICKEL
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Spectroelectrochemistry of Nickel(II) Complexes of *N,N'*-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N,N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
NICKEL SULFIDE
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
NICOTIANAMINE
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891
NICOTINAMIDE COENZYME
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063
NICOTINE
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
NINHYDRIN
Flow Injection Spectrophotometric Determination of Aspartame in Dietary Products, 2101
NITRATE
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
NITRATE-SELECTIVE ELECTRODE
Determination of Nitrate in Carbon Black by Using a Nitrate-selective Electrode, 305
NITRITE
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113
NITRITE ELECTRODE
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363
NITRITE-SENSITIVE MEMBRANE ELECTRODE
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363

NITROAROMATIC COMPOUND
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

NITROGEN DIOXIDE
Characterization Of The Behaviour Of Nitrogen Dioxide At Low Concentrations in Humid Air Within Adsorbent Charcoal Sampling Media, 2135

NITROGEN OXIDE
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389

NITROGEN–PHOSPHORUS DETECTION
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697

NITROPRUSSIDE
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963

***N,N*-DIBROMODIMETHYLHYDANTOIN**
Determination of Cimetidine in Pure Form and in Dosage Forms Using *N,N*-Dibromodimethylhydantoin, 1375

NON-DISPERSIVE ATOMIC FLUORESCENCE SPECTROMETRY
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633

NON-LINEAR MAPPING
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971

NON-LINEAR REGRESSION
Exact Equations for the Equilibrium Constants of Single Intermolecular Complexes in Terms of Spectrophotometric Data, 145

NON-STARCH POLYSACCHARIDE
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511

NON-STEROIDAL ANTI-INFLAMMATORY ANALGESIC
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

NONACTIN
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323

NORFLOXACIN
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351

NORMAL DISTRIBUTION
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369

NOROXIN
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351

NORTESTOSTERONE
Endogenic Nortestosterone in Cattle?, 2581

NUCLEAR CHEMISTRY
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061

NUCLEAR FUEL
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

NUCLEAR INSTALLATION
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

NUCLEAR MAGNETIC RESONANCE
Developments in Spectroscopic Data Handling, 539
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641
Stabilization of the Peptide Conformation on the Micellar Surface, 647
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587

NUCLEOTIDE
Raman Spectra and Analysis of Polynucleotides Containing Adenosine Residues, 1115

NUCLIDE
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613

NUTRITION
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

***O*-PHENYLENEDIAMINE**
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119

OBJECT-ORIENTED PROGRAMMING
Tutorial Review. Object oriented Programming on Personal Computers, 2149

OCCUPATIONAL EXPOSURE
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Sampling of Biological Particles, 53
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Diffusive Sampling Using Tube-type Samplers, 75
Diffusive Air Sampling of Reactive Compounds. A Review, 79
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Comparison of Detector Tube Method With European Standards, 99
Low-level Particle Sampling, 103

OCTADECANOIC ACID
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393

ODOUR DETECTION
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005

OFF-LINE VOLTAMMETRY
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057

OIL
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793

OIL CONTENT
Determination of the Oil Content of Rapeseed by Supercritical Fluid Extraction, 1471

OILY FORMULATION
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

OLIVES
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037

ON-LINE ANALYSIS
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

ON-LINE CATION-EXCHANGE
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829

ON-LINE COPRECIPITATION
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333

ON-LINE DIALYSIS
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

ON-LINE DIGESTION
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
ON-LINE MONITORING
Continuous Liquid–Liquid Extraction With On-line Monitoring for the Determination of Anionic Surfactants in Waters, 2097
ON-LINE PRECONCENTRATION
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553
ON-LINE VOLTAMMETRY
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057
ON-SITE MONITORING
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
ONE-ELECTRON OXIDATION
Tandem Mass Spectrometry for the Determination of Deoxyribonucleic Acid Damage by Polycyclic Aromatic Hydrocarbons. Plenary Lecture, 497
ONE-ELECTRON REDUCTION
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891
ONIUM ION
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
OPHTHALMOLOGY
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
OPTHALMIC SOLUTION
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
OPTICAL EMISSION SPECTROMETRY
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
OPTICAL FIBRE
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
OPTICAL FORMALDEHYDE SENSOR
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
OPTICAL SENSOR
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809
OPTICAL WAVEGUIDE
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
OPTIMIZATION
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
OPTODE MEMBRANE
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809
ORE
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421
ORGANIC COMPOUND
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
ORGANIC FLAVOUR COMPOUND
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
ORGANIC FRAGRANCE COMPOUND
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
ORGANIC MODIFIER
A Retention Index For Micellar Electrokinetic Chromatography, 353
ORGANIC-PHASE BIOSENSOR
Organic-phase Application of an Amperometric Glucose Sensor, 265
Organic-phase Enzyme Biosensor for Moisture Determination in Food Products, 2001
ORGANIC RESIDUE
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
ORGANIC VAPOUR
Novel Sorbents for Sampling Organic Vapours, 65
ORGANOCHLORINE PESTICIDE
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
ORGANOMETALLIC CHEMISTRY
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
ORGANOPHOSPHOROUS PESTICIDE
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
ORGANOSELENIUM
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
ORGANOSULFUR
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
OROTIC ACID
Effect of Surfactants in the Determination of Orotic Acid in Aqueous Solutions by Sensitized Terbium Fluorescence, 2453
ORTHOGONAL ARRAY
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
OVER-OXIDIZED POLYPYRROLE
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
OVINE MILK
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577

OXALATE
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
OXALATE OXIDASE
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
OXFENDAZOLE
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
OXIDATION
Novel View of the Electrochemistry of Gold, 841
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
OXYBUTYNIN
Physico-chemical Properties of Oxybutynin, 1489
OXYGEN
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605
OXYTETRACYCLINE
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757
***P*-ACETYLCHLOROPHOSPHONAZO**
Sensitive Spectrophotometric Determination of Zirconium With *p*-Acetylchlorophosphonazo in the Presence of Sodium Dodecylbenzenesulfonate, 1893
***P*-TOLUENESULFONIC ACID**
Development of a Monitoring Tape for Ammonia Gas in Air Using Rose Bengal, 2009
PALLADIUM
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Selective Complexometric Determination of Palladium(II) Using DL-Methionine as a Selective Masking Agent, 2217
PARACETAMOL
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
PARALYTIC SHELLFISH POISONS
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337
PARAROSANILINE
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
PARATHION
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801
PARTIAL LEAST SQUARES
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
PARTIAL REPLICATES
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369
PARTICLE BEAM LIQUID CHROMATOGRAPHY–MASS SPECTROMETRY
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
PARTICLE BEAM INTERFACE
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
PARTICLE SAMPLING
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Low-level Particle Sampling, 103
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
PASSIVATING FILM
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609
PATTERN RECOGNITION
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777
PECTIN
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511
PENICILLIN
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
PEPTIDE CONFORMATION
Stabilization of the Peptide Conformation on the Micellar Surface, 647
PERFORMANCE
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 1. Electrode Geometry and Figures of Merit, 791
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797
PERFUSION CHROMATOGRAPHY
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
PERIODATE
Sensitive Determination of Periodate and Tartaric Acid by Stopped-flow Chemiluminescence Spectrometry, 1819
PERMSELECTIVITY
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
PERSONAL COMPUTERS
Tutorial Review. Object oriented Programming on Personal Computers, 2149
PESTICIDE
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
PESTICIDE SENSOR
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
PET FOOD
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319
PETROCHEMICAL
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
PETROL
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653

PETROLEUM FRACTION
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987

PH
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

PH ELECTRODE
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

PH GRADIENT
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341

PHASE STUDY
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561

PHASE TRANSITION
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641

PHENANTHROLINE
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443

PHENCYCLIDINE
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797

PHENOL
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123

PHENOXY ACID
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

PHENYLACRIDINE
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567

PHOSPHATE ORE
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421

PHOSPHINE SULFIDE
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421

PHOSPHORIC ACID
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

PHOSPHORIMETRY
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093

PHOSPHOTUNGSTATE-SENSITIVE ELECTRODE
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209

PHOTO-LUMINESCENCE
Luminescence Lifetimes in Biological Systems, 543

PHOTOACOUSTIC SPECTROMETRY
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561

PHOTOACTIVATION
Spectrophotometric Determination of Carbon Tetrachloride Based on a Photoactivated Colour Reaction, 1899

PHOTOCHEMICALLY-INDUCED FLUORESCENCE
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205

PHOTOCHEMISTRY
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Photochemical Spectrophotometric Determination of Riboflavin and Riboflavin 5′-Phosphate by Manual and Flow Injection Methods, 1199
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205
Determination of BRL 46470 in Human Plasma by High- performance Liquid Chromatography With Ultraviolet Absorbance Detection Followed by Post-column Photochemical Reaction and Fluorescence Detection, 2043

PHOTOCONVERSION
Spectrophotometric Determination of Carbon Tetrachloride Based on a Photoactivated Colour Reaction, 1899

PHOTOELECTROCHEMISTRY
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827

PHOTOKINETIC METHOD
Photochemical Spectrophotometric Determination of Riboflavin and Riboflavin 5′-Phosphate by Manual and Flow Injection Methods, 1199
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825

PHOTOMETRIC TITRATION
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473

PHOTOMETRY
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625

PHTHALIC ACID ISOMER
Electrode Function of Selective Membranes for Anions of Phthalic Acid Isomers, 1619

PHYTIC ACID
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

PHYTOSIDEROPHORES
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891

PICROLONATE ION-SELECTIVE ELECTRODE
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613

PIEZOELECTRIC DETECTOR
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005
Recent Developments in Piezoelectric Immunosensors—A Review, 2279

PIEZOELECTRIC SENSOR
Recent Developments in Piezoelectric Immunosensors—A Review, 2279

PIG
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
Origin of Chlortetracycline in Pig Tissue, 2603
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

PILOCARPINE
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327

PINEAL GLAND
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193

PIPERAZINE
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613

PLANT MATERIAL
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789

PLANT XYLEM
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627

PLASMA
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023

Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639

PLASTIC MEMBRANE ELECTRODE
Plastic Membrane Electrode for Selective Determination of Diclofenac (Voltaren) in Pharmaceutical Preparations, 1993

PLASTICIZED POLYURETHANE FOAM
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377

PLASTICIZER
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283

PLATINUM
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239

POLAR AROMATIC COMPOUND
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113

POLARIZATION FLUOROIMMUNOASSAY
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723

POLAROGRAPHY
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Polarographic Behaviour and Determination of Ranitidine in Pharmaceutical Formulations and Urine, 1371
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439

POLLUTION
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061

POLY(3-OCTYLTHIOPHENE)
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985

POLY(DIBENZO-18-CROWN-6)
Separation of Barium From Associated Elements Using Poly-(dibenzo-18-crown-6) and Column Chromatography, 2033

POLY-L-LYSINE
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963

POLY(PHENOL) FILM
Electrochemical Immobilization of Enzymes. Part VI. Microelectrodes for the Detection of L-Lactate Based on Flavocytochrome b_2 Immobilized in a Poly(phenol) Film, 175

POLY(PYRROLE)
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

POLY(TETRAFLUOROETHYLENE)
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839

POLY(VINYL CHLORIDE)
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Cobalt Phthalocyanine Derivatives as Neutral Carriers for Nitrite-sensitive Poly (vinyl chloride) Membrane Electrodes, 1363
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323
Application of Poly(vinyl chloride) Pilocarpine Membrane Electrodes in Ophthalmic Products, 2327
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809

POLY(VINYL CHLORIDE) MATRIX MEMBRANE ELECTRODE
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

POLY(VINYL CHLORIDE) MEMBRANE
Conductive Epoxy-based Ion-selective Electrodes—A Review, 2263

POLYACRYLACYLISOTHIOUREA
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445

POLYCHLORINATED BIPHENYL
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241

POLYCHLORINATED COMPOUND
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241

POLYCYCLIC AROMATIC COMPOUNDS
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997

POLYCYCLIC AROMATIC HYDROCARBON
Tandem Mass Spectrometry for the Determination of Deoxyribonucleic Acid Damage by Polycyclic Aromatic Hydrocarbons. Plenary Lecture, 497
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211
Selective Fluorescence Quenching to Discriminate Between Alternant and Non-alternant Polycyclic Aromatic Hydrocarbons: Acephenanthrylene Derivatives as Exceptions to the Nitromethane Quenching Rule, 2129

POLYESTER
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779

POLYETHYLENE
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551

Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037

POLYMER
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Spectrofluorimetric Detection of Zinc and Cadmium with 8--(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

POLYMER-COATED ALUMINA
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303

POLYMER COMPOSITE
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805

POLYMER-MODIFIED ELECTRODE
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813

POLYMER THIN FILM
Electrocatalytic Oxidation and Flow Injection Determination of Reduced Nicotinamide Coenzyme at a Glassy Carbon Electrode Modified by a Polymer Thin Film, 1063

POLYMERIC BASED SUPPORT
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459

POLYMERIC ISOCYANATE
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043

POLYMERIC MEMBRANE
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853

POLYNUCLEOTIDE
Raman Spectra and Analysis of Polynucleotides Containing Adenosine Residues, 1115

POLYSILOXANE
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687

POLYURETHANE FOAM
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377

PORCINE
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743

PORTABLE INSTRUMENTATION
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337

POTABLE WATER
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025

POTASSIUM
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805

POTASSIUM HYDROGENPHTHALATE
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879

POTASSIUM–OXALATE ION PAIR
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377

POTENTIOMETRIC TITRATION
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319

POTENTIOMETRY
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Small-volume Batch-injection Analyser, 1345
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Potentiometric Titrations of Some Azo Dyes Containing a Hydroxy Group With Tetrabutylammonium Hydroxide in Acetonitrile, 2213
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427

POTSHERDS
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909

PRAESODYMIUM
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463

PRE-MIXED FLAME
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605

PRE-MONOLAYER OXIDATION
Novel View of the Electrochemistry of Gold, 841

PRECIOUS METAL
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617

PRECISION
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Evaluation of the Precision of the Flow Injection Doublet Peak Method, 2087
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627

PRECONCENTRATION
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897

High-performance Liquid Chromatographic Determination of Cobalt(II) as the 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol Chelate After Preconcentration With a Cation-exchange Resin, 1333
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477

PREDICTABILITY
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925

PRINCIPAL COMPONENT ANALYSIS
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777

PROANTHOCYANIDINS
Determination of Proanthocyanidins and Catechins in Beer and Barley by High-performance Liquid Chromatography With Dual-electrode Electrochemical Detection, 863

PROCESS ANALYSIS
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309

PROCESS STREAM
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389

PROPRANOLOL
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093

PROPYLAMINE VAPOUR
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173

PROTEIN
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765

PROTEIN A
Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769

PROTEIN SEPARATION
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341

PROTON NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987

PRUSSIAN BLUE FILM
Analysis of Electrogenerated Films by Ellipsometry and Infrared Spectrometry, 735

PSEUDO-LIQUID MEMBRANE PHASE
Electrode Function of Selective Membranes for Anions of Phthalic Acid Isomers, 1619

PURITY
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879

PYRENE
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211

PYROLYSIS
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693

PYROLYSIS–MASS SPECTROMETRY
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741

PYROLYTIC
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141

QUADRATIC RESPONSE SURFACE
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377

QUALITATIVE ANALYSIS
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367

QUALITY
Representativeness of Analytical Results, 109
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161

QUALITY ASSURANCE
Comparison of Detector Tube Method With European Standards, 99
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707

QUALITY CONTROL
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853

QUANTIFICATION
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071

QUANTITATIVE ANALYSIS
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665

QUARTZ CRYSTAL MICROBALANCE
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005

QUENCHING
Fluorescence Quenching of Polycyclic Aromatic Compounds by Humic Acid, 997
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081

QUINOLIN-8-OL
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875

QUINOLIN-8-OLATE
Differential-pulse Polarographic Determination of Cadmium in Various Environmental Samples After Adsorption of its Quinolin-8-olate Complex on to Microcrystalline Naphthalene, 141

QUINONE RADICAL ANIONS
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827

RACTOPAMINE
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675

RADIATIVE AUGER SATELLITE
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601

RADIOACTIVE DECAY
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613

RADIOACTIVE PARTICLE
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991

RADIOCHEMICAL SEPARATION
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421

RADIOCHEMISTRY
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125

Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
Sub-stoichiometric Isotope Dilution Analysis for the Determination of Selenium by Liquid Scintillation Counting, 2067
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221
Analysis of [^3H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639

RADIOIMMUNOASSAY
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671

RADIOLABEL
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay $^{57}Ni \rightarrow ^{57}Co \rightarrow ^{57}Fe$ in the Solid State, 589
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731

RADIOLYSIS
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay $^{57}Ni \rightarrow ^{57}Co \rightarrow ^{57}Fe$ in the Solid State, 589

RADIONUCLIDE
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759

RAIN WATER
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119

RAISIN
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

RAMAN SPECTROMETRY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567
Raman Spectra and Analysis of Polynucleotides Containing Adenosine Residues, 1115
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473

RANITIDINE
Polarographic Behaviour and Determination of Ranitidine in Pharmaceutical Formulations and Urine, 1371

RAPESEED MEAL
Determination of the Oil Content of Rapeseed by Supercritical Fluid Extraction, 1471

RAPID SCANNING AMPEROMETRY
Rapid Scanning Voltammetric Detection in Flowing Streams, 273

RARE EARTH
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103

RAT HEPATOCYTES
Determination of Malondialdehyde by High-performance Liquid Chromatography Using 4-(2-Phthalimidyl)benzohydrazide as a Pre-column Fluorescent Labelling Reagent, 1047

RAW WATER
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525

REACTIVE COMPOUND
Diffusive Air Sampling of Reactive Compounds. A Review, 79

REACTOR PERFORMANCE
Design and Performance of Electrochemical Reactors for Efficient Synthesis and Environmental Treatment—Part 2. Typical Reactors and Their Performance, 797

REAGENT
Determination of Formaldehyde in Reagents and Beverages Using Flow Injection, 1413

REAGENTLESS BIOSENSOR
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833

REAL-TIME ANALYSIS
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583

RECEPTOR ASSAY
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737

RECEPTOR MIMETIC
Stabilization of the Peptide Conformation on the Micellar Surface, 647

RECOIL
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay $^{57}Ni \rightarrow ^{57}Co \rightarrow ^{57}Fe$ in the Solid State, 589

REDOX CATALYSIS
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855

REDOX CYCLING
Interdigitated Array Microelectrodes for the Determination of Enzyme Activities, 1245

REDOX POLYMER
Dynamic Separation of Mobile Species Transfer Processes at Polymer Modified Electrodes Using the Electrochemical Quartz Crystal Microbalance, 167

REDOX REACTION
Selective Method for the Spectrophotometric Determination of Vanadium in the Presence of Other Refractory Elements with 2,2′-Iminodibenzoic Acid, 2105

REDOX TITRATION
Pulse Coulometric Titration in Continuous Flow, 1835

REDUCTION
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113
Determination of Bromate and Chlorate *via* Reduction With Sodium Nitrite, 2141

REFERENCE FEED
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483

REFERENCE LABORATORIES
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707

REFERENCE MATERIAL
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Determination of Aluminium by Instrumental Neutron Activation Analysis in Biological Samples With Special Reference to NBS SRM 1577 Bovine Liver, 2407
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707

REFLECTANCE SPECTROSCOPY
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
REFRACTORY ELEMENT
Selective Method for the Spectrophotometric Determination of Vanadium in the Presence of Other Refractory Elements with 2,2′-Iminodibenzoic Acid, 2105
REGENERATION
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
REGRESSION
Is My Calibration Linear?, 2363
RELAXATION
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641
REMOTE ELECTRODE
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
RENEWABLE REAGENT
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
RENEWABLE SENSOR
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
REPRESENTATIVENESS
Representativeness of Analytical Results, 109
REPTILIAN SKIN
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
RESIDUALS
Is My Calibration Linear?, 2363
RESIDUE
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
Endogenic Nortestosterone in Cattle?, 2581
RESIDUE ANALYSIS
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227
RESIDUE ASSAY
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
RESIN
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
RESONANCE-ENHANCED MULTI-PHOTON IONIZATION
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719
RESONANCE RAMAN SPECTROSCOPY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
RESONANT MIRROR SENSOR
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
RESPONSE SURFACE
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
RESTRICTOR
Programmed Two-stage Flow Controller for Supercritical Fluid Chromatography, 1315
RETENTION
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167
RETENTION INDEX
A Retention Index For Micellar Electrokinetic Chromatography, 353
RETENTION MECHANISM
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
RETINOL
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
REVERSE MICELLE
Immunoassay for Parathion Without its Prior Removal From Solution in Hexane, 1801
REVERSE MODE FLOW INJECTION
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011
REVERSE TRANSCRIPTASE
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
REVERSED-PHASE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
REVERSED-PHASE LIQUID CHROMATOGRAPHY
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303
REVIEW
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Direct-reading Instruments for Aerosols. A Review, 35
Diffusive Air Sampling of Reactive Compounds. A Review, 79
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*. A Review, 767
Electrochemistry of Waste Removal. A Review, 781
Electrocatalysis Using Electroactive Polymers, Electroactive Composites and Microheterogeneous Systems, 805
Occurrence, Mechanisms and Analytical Applications of Electrogenerated Chemiluminescence. A Review, 879
Spectrophotometric Determination of Vanadium(IV) and Vanadium(V) in Each Other's Presence. A Review, 1263
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
Environmental Sensors Based on Atomic Fluorescence, 1641
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry. A Review, 1647
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
Conductive Epoxy-based Ion-selective Electrodes. A Review, 2263
Historical Review. Twenty Years of Ion-selective Field-effect Transistors, 2275
Recent Developments in Piezoelectric Immunosensors. A Review, 2279
Tutorial Review. Qualitative Analysis in the Near-infrared Region, 2367
Supercritical Fluid Extraction of Analytes from Environmental Samples. A Review, 2381
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes. A Review, 2491
Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769
Past, Present and Future Contributions of Microelectrodes to Analytical Studies Employing Voltammetric Detection, 1R
RIBOFLAVIN
Photochemical Spectrophotometric Determination of Riboflavin and Riboflavin 5′-Phosphate by Manual and Flow Injection Methods, 1199
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
RISK EVALUATION
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521
RIVER SEDIMENT
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
RIVER WATER
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151

Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477

ROASTING
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171

ROBUST REGRESSION
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585

ROCK
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Separation of Barium From Associated Elements Using Poly-(dibenzo-18-crown-6) and Column Chromatography, 2033

ROOM TEMPERATURE PHOSPHORIMETRY
Micelle-stabilized Room-temperature Phosphorimetric Procedure for the Determination of Naproxen and Propranolol in Pharmaceutical Preparations, 1093

ROSE BENGAL
Development of a Monitoring Tape for Ammonia Gas in Air Using Rose Bengal, 2009

RUBIDIUM
Rubidium Ion-selective Electrodes Based on Indanopyrazolo[1,5-*a*]pyrimidines, 2205

RUTHENIUM
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445

RUTHENIUM DIOXIDE
Glucose Oxidation at Ruthenium Dioxide Based Electrodes, 855

RUTHERFORD BACKSCATTERING
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

SALBUTAMOL
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681

SALICYLALDEHYDE CARBOHYDRAZONE
Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221

SALICYLIC ACID
Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915

SALIVA
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395

SALTZMAN COMPLEX
Determination of Low Levels of Nitrogen Oxides in Gas Streams by High-performance Liquid Chromatographic Determination of the Saltzman Complex, 389

SAMARIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103

SAMPLE ABSORPTION
Experimental Correction for the Inner-filter Effect in Fluorescence Spectra, 417

SAMPLE PREPARATION
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753

SAMPLER
Diffusive Sampling Using Tube-type Samplers, 75

SAMPLING
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Sampling of Biological Particles, 53
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Low-level Particle Sampling, 103

SAMPLING EQUIPMENT
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27

SAMPLING STRATEGY
Low-level Particle Sampling, 103

SAPONIFICATION
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793

SATURATED FATTY ACID METHYL ESTER
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921

SAUERBREY EQUATION
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005

SAXITOXIN
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337

SCANNING ELECTROCHEMICAL MICROSCOPY
Advances in Scanning Electrochemical Microscopy , 719

SCANNING PROBE MICROSCOPY
Advances in Scanning Electrochemical Microscopy , 719
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939

SCANNING TUNNELLING MICROSCOPY
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
Imaging Glucoamylase by Scanning Tunnelling Microscopy, 1939

SCREEN-PRINTED ELECTRODE
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431

SCREENING
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695

SCYLLITOL
Determination of Myo-inositol and Phytic Acid by Gas Chromatography Using Scyllitol as Internal Standard, 1319

SEA-WATER
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593

Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

SEAFOOD
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683

SECOND DERIVATIVE SPECTROPHOTOMETRY
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697

SECONDARY ION MASS SPECTROMETRY
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

SEDIMENT
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075

SEDIMENTED PARTICULATE
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125

SEGMENTED FLOW INJECTION
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677

SELECTIVE DETECTION
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

SELECTIVE MEMBRANE
Selective Membranes for the Construction and Optimization of an Amperometric Oxalate Enzyme Electrode, 949
Electrode Function of Selective Membranes for Anions of Phthalic Acid Isomers, 1619

SELECTIVITY
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303

SELECTIVITY COEFFICIENT
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749

SELENIUM
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Comparison of Two Digestion Methods for the Determination of Selenium in Biological Samples, 1715
Sub-stoichiometric Isotope Dilution Analysis for the Determination of Selenium by Liquid Scintillation Counting, 2067
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

SELENOCYANATE
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607

SEMIMETHYLTHYMOL BLUE
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

SENSOR
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Prediction of Gas Sensor Response Using Basic Molecular Parameters, 191
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197
Selective Membrane Electrodes for Analysis, 203
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Development of a Disposable Amperometric Sensor for Reduced Nicotinamide Adenine Dinucleotide Based on a Chemically Modified Screen-printed Carbon Electrode, 253
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Organic-phase Application of an Amperometric Glucose Sensor, 265
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
pH Indicator Based Ammonia Gas Sensor: Studies of Spectral Performance Under Variable Conditions of Temperature and Humidity, 443
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449
Real-time Biomolecular Interaction Analysis Using the Resonant Mirror Sensor, 583
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
Development of an Optical Formaldehyde Sensor Based on the Use of Immobilized Pararosaniline, 959
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625
Environmental Sensors Based on Atomic Fluorescence, 1641
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Aldehyde-selective Polymeric Membrane Electrodes Based on a Calix[4]arene Ionophore, 1853
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Potential Carbon Dioxide Sensing Based on Recognition by *trans*-[Carbonylhydroxybis-(triphenylphosphine)rhodium(I)] Deposited on Acoustic Wave Devices, 1947
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005
Development of a Monitoring Tape for Ammonia Gas in Air Using Rose Bengal, 2009
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
Recent Developments in Piezoelectric Immunosensors—A Review, 2279
Electroanalytical and Biocompatibility Studies on Carboxylated Poly(vinyl chloride) Membranes for Microfabricated Array Sensors, 2283
On-chip Microband Array Electrochemical Detector for use in Capillary Electrophoresis, 2303
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Fabrication and Characterization of a Screen-printed, Disposable, Amperometric Cholesterol Biosensor, 2331
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809

SENSOR ARRAY
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749

SEPARATION
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071
SEQUENTIAL EXTRACTION
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075
SEQUENTIAL INJECTION
The Fountain Cell: A New Tool for Chemiluminescence Analysis by Flow Injection, 975
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Sequential Injection Analysis for Electrochemical Measurements and Process Analysis, 2309
SERUM
Determination of Octadecadienoic Acids in Human Serum: a Critical Appraisal, 393
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575
Application of a Picrolonate Ion-selective Electrode to the Assay of Calcium and Piperazine in Pharmaceuticals and Serum, 1613
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167
SHEATH-FLOW CUVETTE
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349
SHELLFISH
Recovery of Saxitoxin From Solution by Coprecipitation With Hydrated Iron(III) Oxide, 1337
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
SHEWHART CONTROL CHARTS
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369
SHIPYARD WATER
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
SHRIMP
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
SIGNAL PROCESSING
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
SILICA
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
SILICA COLUMN
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
SILICA GEL
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
SILICON
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
SILICON TETRACHLORIDE
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725
SILICONE
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
SILVER
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Determination of Silver(I) by Cyclic Voltammetry at Iodine-coated Electrodes, 1975
SILVER SOL
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567
SIMCA
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777
SIMPLEX OPTIMIZATION
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
SIMULTANEOUS DETERMINATION
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Spectrophotometric Determination of Vanadium(IV) and Vanadium(V) in Each Other's Presence. A Review, 1263
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
SKIN
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561
SLAGS
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377
SLURRY
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
SMALL-VOLUME WALL-JET CELL
Small-volume Batch-injection Analyser, 1345
SNAKE SKIN
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
SNOW
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
SOAP
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793
SODIUM
Determination and Application of Ion-selective Electrode Model Parameters Using Flow Injection and Simplex Optimization, 749
SODIUM DODECYLBENZENESULFONATE ALLOY
Sensitive Spectrophotometric Determination of Zirconium With *p*-Acetylchlorophosphonazo in the Presence of Sodium Dodecylbenzenesulfonate, 1893
SODIUM ETHYLMERCURYTHIOSALICYLATE
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
SODIUM GLASS ELECTRODE
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427
SODIUM LAURYL SULFATE
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
SODIUM NITRITE
Determination of Bromate and Chlorate *via* Reduction With Sodium Nitrite, 2141

SODIUM TETRAETHYLBORATE
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429

SODIUM–OXALATE ION PAIR
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377

SOFT CONTACT LENS
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971

SOFT X-RAY ABSORPTION SPECTROSCOPY
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609

SOFTWARE
Tutorial Review. Object oriented Programming on Personal Computers, 2149

SOIL
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293

SOL
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567

SOLID PHASE DISPERSION
Application of the Matrix Solid Phase Dispersion Technique for the Determination of Ivermectin Residues in Fish Muscle Tissue, 2227

SOLID-PHASE EXTRACTION
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617

SOLID-PHASE SEPARATION
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925

SOLID-STATE CHEMICAL SENSOR
Ion-selective Field-effect Transistor and Chalcogenide Glass Ion-selective Electrode Systems for Biological Investigations and Industrial Applications, 449

SOLID-STATE DECAY
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589

SOLID-STATE ELECTRODE
All solid-state Poly(vinyl chloride) Membrane Ion-selective Electrodes With Poly(3-octylthiophene) Solid Internal Contact, 1985
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
All Solid-state Hydrogen Ion-Selective Electrode Based on a Conducting Poly(pyrrole) Solid Contact, 2417

SOLID–LIQUID EXTRACTION
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891

SOLUBILITY
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925

SOLUBILITY PRODUCT
Solubility of Barium(II) Taurodeoxycholate, 469

SOLUBLE MEDIATOR
Organic-phase Application of an Amperometric Glucose Sensor, 265

SOLVENT EFFECT
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205

SOLVENT EXTRACTION
Electrochemical Study of Solvent Extraction With Quinolin-8-ol as Complexing Agent. Part 2. Mechanism of Electrochemical Extraction of Cadmium and Some Other Divalent Metals Ions, 1875

SOLVENT MEDIATOR
Evaluation of an Ammonium Ionophore for Use in Poly(vinyl chloride) Membrane Ion-selective Electrodes: Solvent Mediator Effects, 2323

SORBENT
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71

SORBENT EXTRACTION
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459

SORBENT SAMPLER
Diffusive Air Sampling of Reactive Compounds. A Review, 79

SORBITOL
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057

SORPTION
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863

SOYA SEED
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813

SPECIATION
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Derivatization by Ethylation With Sodium Tetraethylborate for the Speciation of Metals and Organometallics in Environmental Samples. A Review, 1429
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785

SPECTROELECTROCHEMISTRY
Spectroelectrochemistry of Nickel(II) Complexes of *N,N'*-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N,N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327

SPECTROFLUORIMETRY
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Photochemical–Spectrofluorimetric Method for the Determination of Several Aromatic Insecticides, 1205
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211
Spectrofluorimetric Determination of Nalidixic Acid Based on Host–Guest Complexation With **2e**-Cyclodextrin, 1215
Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221
Spectrofluorimetric Detection of Zinc and Cadmium with 8--(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903

Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
Effect of Surfactants in the Determination of Orotic Acid in Aqueous Solutions by Sensitized Terbium Fluorescence, 2453
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743

SPECTROFLUORIMETRY AT ZERO ANGLE

Spectrofluorimetry at Zero Angle: Determination of Salicylic Acid in an Acetylsalicylic Acid Pharmaceutical Formulation, 1561

SPECTROMETRY

Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Functionalized Cyclodextrins as Potentiometric Sensors for Onium Ions, 181
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry, 339
Fast Atom Bombardment Mass Spectrometry of Sodium and Potassium Oxalates—Mass Spectrometric Evidence for the Existence of (Sodium–oxalate)$^-$ and (Potassium–oxalate)$^-$ Ion Pairs in Aqueous Solutions, 377
Interlaboratory Comparison of Instruments Used for the Determination of Elements in Acid Digestates of Solids, 383
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Tandem Mass Spectrometry for the Determination of Deoxyribonucleic Acid Damage by Polycyclic Aromatic Hydrocarbons. Plenary Lecture, 497
Impact of Mass Spectrometry in Surface Analysis, 513
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605
Improved Neutron Activation Analysis With Short-lived Nuclide Decay Compensation, 613
Determination of Precious Metals in Rocks by Inductively Coupled Plasma Mass Spectrometry Using Nickel Sulfide Concentration. Comparison With Other Pre-treatment Methods, 617
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Simultaneous Determination of Chromium(III) Complexes and Chromium(VI) by Fast Protein Anion-exchange Liquid Chromatography–Atomic Absorption Spectrometry, 627
Studies on the Breakdown of Organoselenium Compounds in a Hydrobromic Acid–Bromine Digestion System, 633
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903
Application of Isotope Ratio Monitoring Gas Chromatography–Mass Spectrometry to the Analysis of Organic Residues of Archaeological Origin, 909
Derivatization of Organic Compounds Prior to Gas Chromatographic–Combustion–Isotope Ratio Mass Spectrometric Analysis: Identification of Isotope Fractionation Processes, 915
Flow-through, Microwave-heated Digestion Chamber for Automated Sample Preparation Prior to Inductively Coupled Plasma Spectrochemical Analysis, 1003
Flow Injection Dispersion Characteristics With Inductively Coupled Plasma Atomic Emission Spectrometry—Part 1. Methodology, 1011
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Comparative Study of Humic Substances in Soil Using Pyrolytic Techniques and Other Conventional Chromatographic Methods, 1141
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Response Surfaces for the Determination of Arsenic(III) by Hydride Generation Atomic Absorption Spectrometry and Flow Injection, 1403
Procedure for the Determination of ^{210}Pb in Phosphate Ore, Gypsum and Phosphoric Acid by Radiochemical Separation and Gamma-ray Spectrometry, 1421
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Lead Hydride Generation Atomic Absorption Spectrometry: an Alternative to Electrothermal Atomic Absorption Spectrometry—A Review, 1647
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 1. Two-level Design and Its Application in Microwave Dissolution of Biological Samples, 1659
Orthogonal Array Design as a Chemometric Method for the Optimization of Analytical Procedures. Part 2. Four-level Design and Its Application in Microwave Dissolution of Biological Samples, 1669
Characterization of Inductively Coupled Plasma Mass Spectrometry With Segmented-flow Injection, 1677
Microwave Digestion for the Determination of Arsenic, Cadmium and Lead in Seafood Products by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry, 1683
Development of a High-performance Liquid Chromatographic–Inductively Coupled Plasma Method for Speciation and Quantification of Silicones: From Silanols to Polysiloxanes, 1687
Direct Analysis of Milk for Aluminium Using Electrothermal Atomic Absorption Spectrometry, 1695
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
Derivative Fourier Transform Infrared Spectrometric Determination of Ethanol in Beers, 1773
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915

Characterization of Hydrogenated Derivatives of Methyl- and Dimethyldicyclopentadiene Isomers by Gas Chromatography–Mass Spectrometry and Carbon-13 Nuclear Magnetic Resonance Spectroscopy, 1731
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Determination of Anabolic Esters in Oily Formulations and Plasma in Husbandry Using High-performance Liquid Chromatography and Gas Chromatography–Mass Selective Detection, 2617
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Selenium Speciation—A Flow Injection Approach Employing On-line Microwave Reduction Followed by Hydride Generation–Quartz Furnace Atomic Absorption Spectrometry, 2785
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

SPECTROPHOTOMETRY

Exact Equations for the Equilibrium Constants of Single Intermolecular Complexes in Terms of Spectrophotometric Data, 145
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Second-derivative Spectrophotometric Determination of Naproxen in the Presence of its Metabolite in Human Plasma, 697
Determination of Selenium in Biological Matrices Using a Kinetic Catalytic Method, 703
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195
Photochemical Spectrophotometric Determination of Riboflavin and Riboflavin 5′-Phosphate by Manual and Flow Injection Methods, 1199
Spectrophotometric Determination of Vanadium(IV) and Vanadium(V) in Each Other's Presence. A Review, 1263
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
Extractive Spectrophotometric Determination of Dimethoate with Molybdate and Methylene Blue by a Flotation–Dissolution Method, 1387
Determination of Dietary Fibre as Non-starch Polysaccharides with Gas–Liquid Chromatographic, High-performance Liquid Chromatographic or Spectrophotometric Measurement of Constituent Sugars, 1497
Spectrophotometric Determination of Mixtures of Iron(III) and Manganese(II) by Complexation With 3-Indolylacetohydroxamic Acid and Principal Component Regression Multivariate Calibration, 1537
Comparison of Multivariate Calibration Techniques for the Quantification of Model Process Streams Using Diode-array Spectrophotometry, 1541
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553
Kinetic–Spectrophotometric Determination of Diquat Based on a Charge-transfer Complex With Cysteine, 1557
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
Determination of Micro Amounts of Lanthanoids in Cast Iron after Solid–Liquid Extraction With Diethyldithiocarbamate, 1891
Sensitive Spectrophotometric Determination of Zirconium With *p*-Acetylchlorophosphonazo in the Presence of Sodium Dodecylbenzenesulfonate, 1893
Spectrophotometric Determination of Carbon Tetrachloride Based on a Photoactivated Colour Reaction, 1899
Flow Injection Spectrophotometric Determination of Aspartame in Dietary Products, 2101
Selective Method for the Spectrophotometric Determination of Vanadium in the Presence of Other Refractory Elements with 2,2′-Iminodibenzoic Acid, 2105
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457
Quantitative Determination of Praesodymium(III)–Neodymium(III)–Holmium(III)–Erbium(III) Four-component Systems by Matrix–Fourth Derivative Spectrophotometry, 2463
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
Design of a Primary Amine-selective Optode Membrane Based on a Lipophilic Hexaester of Calix[6]arene, 2809

SPECTROSCOPIC DATA HANDLING
Developments in Spectroscopic Data Handling, 539
SPECTROSCOPIC DATABASES
Developments in Spectroscopic Data Handling, 539
SPECTROSCOPY
Multidimensional Gas Chromatography–Infrared Spectrometry–Mass Spectrometry. Plenary Lecture, 483
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Developments in Spectroscopic Data Handling, 539
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567
Application of ^{57}Fe Emission Mössbauer Spectroscopy to the Investigation of the Physico-chemical Consequences of theDouble Radioactive Decay ^{57}Ni→^{57}Co→^{57}Fe in the Solid State, 589
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609
Stabilization of the Peptide Conformation on the Micellar Surface, 647
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
Quantitative Analysis of Small Volumes of Gas Mixtures by Fourier Transform Infrared Spectroscopy, 665
Application of Drift Spectroscopy and Chemometrics to the Discrimination of Dye Mixtures Extracted from Fibres from Worn Clothing, 671
Infrared and Nuclear Magnetic Resonance Studies of Some Surface Properties of Asbestos–Albumin Interactions, 689
Analysis of Polymers Using Evolved-gas and Direct-pyrolysis Techniques, 693
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
Improvement in the Determination of Aromatic Carbons in Petroleum Fractions by Proton Nuclear Magnetic Resonance Spectroscopy, 987
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777
SPICE
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113
SPOILAGE
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
SPORES
Sampling of Biological Particles, 53
SPRAY REAGENT
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
SPREADSHEET
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
SQUARE-WAVE VOLTAMMETRY
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443
STABILITY
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
Investigation of the Stability of Medicinal Additives in Animal Feedingstuffs to Prepare Reference Feeds, 1483
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
STABLE ISOTOPE
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
STABLE-ISOTOPE LABELLING
Ionic Reaction Mechanisms in Pre-mixed Flames Disclosed by Stable-isotope Labelling, 605
STABLE ISOTOPE RATIO MASS SPECTROMETRY
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
STANDARD ADDITIONS
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
STANDARD DEVIATION
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
STANDARD REFERENCE MATERIAL
Use of Nuclear and Nuclear-related Analytical Techniques in Studies of Trace and Minor Elements in Air Pollution, 2061
STANDARD SOLID GLASSES
Direct and Rapid Determination of Potassium in Standard Solid Glasses by Excimer Laser Ablation Plasma Atomic Emission Spectrometry, 1441
STANDARDIZATION
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
STANDARDS
Measurement of Fine Aerosols in Workplaces. A Review, 19
STAPHYLOCOCCUS AUREAUS
Use of Protein A as an Immunological Reagent and Its Application Using Flow Injection, 2769
STATIC SECONDARY ION MASS SPECTROMETRY
Impact of Mass Spectrometry in Surface Analysis, 513
STATIONARY PHASE
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
STATIONARY PHASE MATERIAL
Selectivity of Polymer-coated Alumina Stationary Phases for Reversed-phase Liquid Chromatography. Part 1. Methylene Group Selectivity, 1303
STATISTICAL UNCERTAINTY
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
STATISTICS
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
Multivariate Statistical Analysis of Gas Chromatograms to Differentiate Cocoa Masses by Geographical Origin and Roasting Conditions, 1171
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
Is My Calibration Linear?, 2363
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367
Principal Component Outlier Detection and SIMCA: A Synthesis, 2777
STEEL
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
One-step Microwave Digestion Procedures for the Determination of Aluminium in Steels and Iron Ores by Inductively Coupled Plasma Atomic Emission Spectrometry, 2081
STEPWISE MULTIPLE LINEAR REGRESSION
Analysis of Cotton–Polyester Yarns by Near-infrared Reflectance Spectroscopy, 1779
STERILIZED MILK DRINKS
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
STEROID
Preliminary Study of the Metabolism of 17α-Methyltestosterone in Horses Utilizing Gas Chromatography–Mass Spectrometric Techniques, 2537
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553

Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Endogenic Nortestosterone in Cattle?, 2581
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655

STOPPED FLOW
Simultaneous Determination of Chlorpyrifos and Carbaryl by Differential Degradation Using Diode-array Spectrophotometry Optimized by Partial Least Squares, 1183
Sensitive Determination of Periodate and Tartaric Acid by Stopped-flow Chemiluminescence Spectrometry, 1819
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093

STRIPPING
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759

STRIPPING ANALYSIS
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813

STRIPPING VOLTAMMETRY
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Determination of Endosulfan by Stripping Voltammetry, 1867
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351

STRONTIUM
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759

STRONTIUM SULFIDE
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

STRUCTURE CONFIRMATION
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

STRUCTURE–RETENTION RELATIONSHIP
Computational Chemical Analysis of the Retention of Phenols in Reversed-phase Liquid Chromatography, 1167

SUB-STOICHIOMETRIC ISOTOPE DILUTION ANALYSIS
Sub-stoichiometric Isotope Dilution Analysis Method for the Determination of Iodine in Common Salts Using Iodine-131 Tracer, 1417

SUBSTRATE EFFECTS
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935

SUBSTRATE INHIBITION
Horseradish Peroxidase Assay—Radical Inactivation or Substrate Inhibition? Revision of the Catalytic Sequence Following Mass Spectral Evidence, 213

SUCCINONITRILE
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697

SULFAMETHAZINE
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

SULFAMIC ACID
Accuracy of the Measurement of Purity of Sulfamic Acid by Coulometric Titration, 1879

SULFIDE
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

SULFITE
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

SULFONAMIDE
Determination of Binary Mixtures of Sulfonamides by Photochemically Induced Fluorescence Using Partial Least Squares Multivariate Calibration, 1177
Flow-through Photometric Sensor for Determination of Sulfonamides, 1625
Immunochemical Detection of Antibiotics and Sulfonamides, 2543
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

SULFONIC ACID
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787

SULFORHODAMINE 101
A Simple Laser-induced Fluorescence Detector for Sulforhodamine 101 in a Capillary Electrophoresis System: Detection limits of 10 Yoctomoles or Six Molecules, 349

SULFUR
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475
Raman Spectrometric Study of the Charring Process of Lead in Sulfur in Electrothermal Atomic Absorption Spectrometry, 2473

SULFUR DECOMPOSITION
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

SULFUR DIOXIDE
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239

SULFUR HEXAFLUORIDE
The Sulfur(IV)–Cobalt(II)–Azide System and Its Application to the Investigation of the Decomposition of Sulfur Hexafluoride under Electrical Discharges, 1075

SULFUR SPECIES MIXTURE ANALYSIS
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

SUPERCOILED DEOXYRIBONUCLEIC ACID
Use of Molybdenum Telluride as a Substrate for the Imaging of Biological Molecules During Scanning Tunnelling Microscopy, 727
SUPERCRITICAL FLUID
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925
Determination of the Oil Content of Rapeseed by Supercritical Fluid Extraction, 1471
Supercritical Fluid Extraction of Analytes from Environmental Samples—A Review, 2381
SUPERCRITICAL FLUID CHROMATOGRAPHY
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
Programmed Two-stage Flow Controller for Supercritical Fluid Chromatography, 1315
SUPERCRITICAL FLUID EXTRACTION
Predicting Solubility in Supercritical Fluid Extraction Using a Neural Network, 925
Determination of the Oil Content of Rapeseed by Supercritical Fluid Extraction, 1471
Supercritical Fluid Extraction of Analytes from Environmental Samples—A Review, 2381
Quantitative Method for the Analysis of Flavour and Fragrance Components From Lavender and Rosemary by Studying the Kinetics of Their Supercritical Fluid Extraction, 2789
SUPERCRITICAL SOLVENT
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505
SUPERFUSION
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
SUPPLEMENT
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179
SUPRACHIASMATIC NUCLEUS
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193
SURFACE ACTIVE AGENT
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603
SURFACE ANALYSIS
Impact of Mass Spectrometry in Surface Analysis, 513
SURFACE-BOUND CONFORMATION
Stabilization of the Peptide Conformation on the Micellar Surface, 647
SURFACE DUST CONTAMINATION
Low-level Particle Sampling, 103
SURFACE-ENHANCED RAMAN SPECTROSCOPY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
Surface-enhanced Raman Spectroscopy of 9-Phenylacridine on Silver Sol, 567
SURFACE-MODIFIED SCREEN-PRINTED ELECTRODE
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
SURFACE STRUCTURE
Atomic Force Microscopic Determination of Substrate Effects on the Structure of Deposited Biomineral Phosphates, 1935
SURFACE STUDY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
SURFACE WATER
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
SURFACTANT
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Continuous Liquid–Liquid Extraction With On-line Monitoring for the Determination of Anionic Surfactants in Waters, 2097
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805
SURFACTANT EFFECT
Effect of Surfactants in the Determination of Orotic Acid in Aqueous Solutions by Sensitized Terbium Fluorescence, 2453
SUSPENSION
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
SWEETS
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
SYNCHRONOUS FLUORESCENCE SPECTROMETRY
Determination of Salicylic and Gentisic Acids in the Presence of Each Other by Matrix Isopotential Synchronous Fluorescence Spectrometry, 1915
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
SYNCHRONOUS SOLID-PHASE SPECTROFLUORIMETRY
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211
SYNCHRONOUS SPECTROFLUORIMETRY
Selective Synchronous Spectrofluorimetric Detection of Acenaphthene in Mixtures of Three-ring Aromatic Compounds Based on Complexation with Cyclomaltoheptaose (β-Cyclodextrin) in the Presence of Iodide Ion as Quencher, 1081
Development of the H-Point Standard Additions Method for the use of Spectrofluorimetry and Synchronous Spectrofluorimetry, 2123
SYNCHROTRON RADIATION
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609
SYNOVIAL FLUID
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
SYSTEMATIC ERROR
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293
TABLE OLIVES
Biogenic Amines in Table Olives. Analysis by High-performance Liquid Chromatography, 2037
TANDEM MASS SPECTROMETRY
Tandem Mass Spectrometry for the Determination of Deoxyribonucleic Acid Damage by Polycyclic Aromatic Hydrocarbons. Plenary Lecture, 497
Multiple Stage Mass Spectrometry: The Next Generation Tandem Mass Spectrometry Experiment, 533
Tandem Mass Spectrometric Investigation of the Phytosiderophores Mugineic Acid, Deoxymugineic Acid and Nicotianamine, 891
Analysis of Carbohydrates in Marine Particulates by Gas Chromatography and Tandem Mass Spectrometry, 1125
Application of Tandem Mass Spectrometry to the Analysis of Chlorinated Compounds, 1129
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753
TAPE MONITOR
Development of a Monitoring Tape for Ammonia Gas in Air Using Rose Bengal, 2009
TARTRATE
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Sensitive Determination of Periodate and Tartaric Acid by Stopped-flow Chemiluminescence Spectrometry, 1819
TAUTOMERIC EQUILIBRIA
Application of Infrared Spectrometry to the Study of Tautomeric Equilibria and Hydrogen Bonding Basicity of Medical and Biochemical Agents: *N,N′*-Disubstituted Amidines, 683
TECHNOLOGY
The Future of Electroanalytical Instrumentation, 874
TERBIUM
Effect of Surfactants in the Determination of Orotic Acid in Aqueous Solutions by Sensitized Terbium Fluorescence, 2453
***TERT*-BUTYL IODIDE**
High-field Magnetic Resonance Studies of the Molecular Motion of *tert*-Butyl Compounds in Liquid and Solid Phases: the Binary System *tert*-Butyl Iodide–Carbon Tetrachloride, 641

TERTIARY AMINE OXIDE
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201

TESSIER'S EXTRACTION
Comparison Between Microwave and Conventional Heating Procedures in Tessier's Extractions of Calcium, Copper, Iron and Manganese in a Lagoon Sediment, 2075

TESTOSTERONE
Rapid Fluorescence Flow Injection Immunoassay Using a Novel Perfusion Chromatographic Material, 943

TETRABROMOPHENOLPHTHALEIN ETHYL ESTER
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473

TETRACYCLINE ANTIBIOTIC
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713

TETRALACTAM
Macrocyclic Polyether Tetralactams. Part IV. Potentiometric Evaluation of Ion-selective Characteristics With Alkaline-earth Cations, 2315

TETRAMISOLE
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705

TETRAPHENYLBORATE
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

TETRATHIONATE
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

THALLIUM
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Extractive Separation and Determination of Thallium and Indium by Liquid Scintillation Counting, 2071
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467

THAUMATIN
Pulsed Amperometric Detection of Thaumatin Using Antibody-containing Poly(pyrrole) Electrodes, 1997

THEOPHYLLINE
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967

THEORY
Experimental Correction for the Inner-filter Effect in Fluorescence Spectra, 417
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
Naphthalene Contamination of Sterilized Milk Drinks Contained in Low-density Polyethylene Bottles—Part 1, 1037
Is My Calibration Linear?, 2363

THERMAL DIFFUSIVITY
Laser-induced Photoacoustic Signal Phase Study of Stratum Corneum and Epidermis, 561

THERMAL IONIZATION MASS SPECTROMETRY
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

THERMOCHEMICAL HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY DETECTOR
Design and Characterization of a Thermochemical High-performance Liquid Chromatography Flame Photometric Detector Interface for the Speciation of Sulfur, 1475

THERMOMETRY
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077

THERMOSPRAY
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687

THICK-FILM SENSOR
Screen-printed Glucose Strip Based on Palladium-dispersed Carbon Ink, 1849
Potentiometric Thick-film Sensor for the Determination of the Neurotransmitter Acetylcholine, 2167

THICK-FILM TECHNOLOGY
Screen-printed Enzyme Electrode for the Determination of Lactose, 1251

THIMEROSAL
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971

THIN FILM
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173

THIN-FILM ELECTRODE
Hand-held Instrumentation for Environmental Monitoring, 187
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229

THIN LAYER
Amperometric Arrays in Flowing Solution Analysis, 953

THIN-LAYER CHROMATOGRAPHY
Thin-layer Chromatographic Method for the Determination of the Principal Polar Aromatic Flavour Compounds of the Cinnamons of Commerce, 113
Thin-layer Chromatographic Spray Reagent for the Screening of Biological Materials for the Presence of Carbaryl, 415
Recent Trends in Chromatographic Procedures for Separation and Determination of Rare Earth Elements. A Review, 2013
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761

THIN-LAYER ELECTRODE
Spectroelectrochemistry of Nickel(II) Complexes of *N,N'*-Bis-(salicylaldehyde–*o*-Phenylenediamine and *N,N*-Bis(2-hydroxy-1-naphthaldehyde)–*o*-Phenylenediamine Using an Optically Transparent Thin-layer Electrode, 327

THIN-LAYER ENZYME CELL
Application of Biosensor With Amperometric Detection for Determining Ethanol, 1843

THIOCHOLINE
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259

THIOCYANATE
Flow Injection Amperometric Determination of Thiocyanate and Selenocyanate at a Cobalt Phthalocyanine Modified Carbon Paste Electrode, 1607

THIOSULFATE
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

THORIUM
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

THORIUM DISEQUILIBRIUM
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403

THYROXINE
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579

TIAPROFENIC ACID
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071

TILMICOSIN
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577

TIME-DOMAIN DIFFERENTIATION
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231

TIME-OF-FLIGHT MASS SPECTROMETRY
Direct Determination of Polycyclic Aromatic Hydrocarbons in Environmental Matrices Using Laser Desorption Laser Photoionization Time-of-flight Mass Spectrometry, 571

TIME-RESOLVED FLUORESCENCE
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565

TIME-RESOLVED FLUORESCENCE SPECTROMETRY
Evidence for Changes in the Conformation of Flexible Solutes Dissolved in Supercritical Solvents, 505

TIME-RESOLVED FLUOROIMMUNOASSAY
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813
TIME-RESOLVED INFRARED SPECTROSCOPY
Nanosecond Time-resolved Infrared Spectroscopy: a Comparative View of Spectrometers and Their Applications in Organometallic Chemistry, 551
TIN
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Comparative Study of the Chelation Reaction of *N*-Benzoyl-*N*-phenylhydroxylamine With Tin(II) and Tin(IV), 2247
TIP BROADENING
Imaging Flagella of Halobacteria by Atomic Force Microscopy, 1943
TISSUE
Determination of Fenbendazole and Oxfendazole in Liver and Muscle Using Liquid Chromatography–Mass Spectrometry, 1325
TISSUE RESIDUE
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
TITANIUM
Inductively Coupled Plasma Atomic Emission Spectrometric Determination of Aluminium, Barium, Silicon, Strontium and Titanium in Food After Sample Fusion, 131
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
TITANIUM OXIDE
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887
TITRIMETRY
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473
Titration of Thorium and Rare Earths With Ethylenediaminetetraacetic Acid Using Semimethylthymol Blue by Visual End-point Indication, 1103
Determination of Cimetidine in Pure Form and in Dosage Forms Using *N*,*N*-Dibromodimethylhydantoin, 1375
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629
Application of Ethylenediaminetetraacetic Acid as a Titrant at High Degrees of Neutralization, 1633
Pulse Coulometric Titration in Continuous Flow, 1835
Potentiometric Titration of Long Chain Tertiary Amine Oxides and Tertiary Amines Using a Poly(vinyl chloride) Membrane Electrode, 2201
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209
Potentiometric Titrations of Some Azo Dyes Containing a Hydroxy Group With Tetrabutylammonium Hydroxide in Acetonitrile, 2213
Selective Complexometric Determination of Palladium(II) Using DL-Methionine as a Selective Masking Agent, 2217
Application of an All-solid-state Ion-selective Electrode for the Automated Titration of Anionic Surfactants, 2319
Complexometric Determination of Gallium, Indium and Thallium with Ethylenediaminetetracetic Acid and Semimethylthymol Blue by Visual End-point Indication, 2467
Specifications of Colour Changes of Complexometric Indicators in the Titration of Zirconium With Ethylenediaminetetraacetic Acid, 2817
TOBACCO ALKALOIDS
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
TOLUENE
Simultaneous Flow Analysis Fourier Transform Infrared Determination of Benzene, Toluene, and Methyl *t*-Butyl Ether in Petrol, 653
TORASEMIDE
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
TOXIC GASES
Electrochemistry of Waste Removal—A Review, 781
TOXICITY
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Electrochemistry of Waste Removal—A Review, 781
Slurry–Electrothermal Atomic Absorption Spectrometric Methods for the Determination of Copper, Lead, Zinc, Iron and Chromium in Sweets and Chewing Gum After Partial Dry Ashing, 1119
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
Determination of Aflatoxin B_1 in Agricultural Commodities by Time-resolved Fluoroimmunoassay and Immunoenzymometric Assay, 2813
TOXICITY MONITORING
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197
TOXICOLOGY
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Direct-reading Instruments for Aerosols. A Review, 35
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Diffusive Sampling Using Tube-type Samplers, 75
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
Mathematical Model of Toxicity Monitoring Sensors Incorporating Microbial Whole Cells, 197
Spectrophotometric Method for the Determination of Total Tobacco Alkaloids and Nicotine, 1883
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521
TOXOPHEROL
High-performance Liquid Chromatographic Method for the Simultaneous Determination of Tocopherols, Carotenes, and Retinol and its Geometric Isomers in Italian Cheeses, 1161
TRACE ANALYSIS
Determination of Trace Amounts of Anionic Impurities in Hydrochloric Acid by Ion Chromatography, 121
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Decentralized Electrochemical Monitoring of Trace Metals: From Disposable Strips to Remote Electrodes, 763
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Synthesis and Efficiency of a Polyacrylacylisothiourea Chelating Fibre for the Preconcentration and Separation of Trace Amounts of Gold, Palladium and Ruthenium from Solution Samples, 1445
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
Trace Metal Atomic Absorption Spectrometric Analysis Utilizing Sorbent Extraction on Polymeric-based Supports and Renewable Reagents, 1459
Determination of Trace Amounts of Cobalt by Flow Injection With Spectrophotometric Detection, 1553
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351
Determination of Trace Amounts of Acetic Acid in Acetic Anhydride by Fluoride Isoconcentration Using a Cell Without a Liquid Junction, 2427
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753
TRACE ELEMENT
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485
Mass Spectrometric Methods for Studying Nutrient Mineral and Trace Element Absorption and Metabolism in Humans Using Stable Isotopes—A Review, 2491

TRACE ENRICHMENT
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
TRACE-LEVEL ENRICHMENT
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
TRACE METAL
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
TRANSDERMAL DRUG DELIVERY
Comparison of Fourier Transform Raman Spectra of Mammalian and Reptilian Skin, 563
TRANSISTOR
Historical Review—Twenty Years of Ion-selective Field-effect Transistors, 2275
TRANSITION METAL
Dipicolinic Acid as Eluent for the High-performance Liquid Chromatographic Determination of Transition Metals Using Iminodiacetic Acid-bonded Silica, 1329
TRANSMISSION FOURIER TRANSFORM INFRARED SPECTROMETRY
Determination of Protein and Fat in Meat by Transmission Fourier Transform Infrared Spectrometry, 1765
TREATED WATER
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
TRENBOLONE
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
TRI-*N*-BUTYL PHOSPHATE
Sorption of Aluminium on Tri-*n*-butyl Phosphate Plasticized Polyurethane Foam Sorbents From Sodium Hydroxide Solution: Application to the Determination of Aluminium in Glasses and Slags, 1377
TRIAZINE
Integrated Optical Immunosensor for *s*-Triazine Determination: Regeneration, Calibration and Limitations, 437
TRIAZINE HERBICIDE
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
TRIBUTYLPHOSPHATE
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443
TRIMETHYLANILINE
Spectrophotometric Determination of Phenols by Coupling With Diazotized 2,4,6-Trimethylaniline in a Micellar Medium, 1381
TRITHIONATE
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457
TRYPTAMINE
Application of Tryptamine as a Derivatizing Agent for the Determination of Airborne Isocyanates—Part 6. Confirmation of the Concept of Isolation of a Selected π-System of a Derivative for Specific High-performance Liquid Chromatographic Detection Through Analysing Bulk Materials for Total Isocyanate Content, 1043
TUBE-TYPE SAMPLER
Diffusive Sampling Using Tube-type Samplers, 75
TUBULAR ELECTRODE
Tubular Potentiometric Detector for Flow Injection Based on Homogeneous Crystalline Membranes Sensitive to Copper, Cadmium and Lead, 209
Anion-selective Electrodes Based on a Gold(III)–Triisobutylphosphine Sulfide Complex, 2421
TUNABLE INFRARED LASER
Laser Photoacoustic Spectrometry for Trace Gas Monitoring, 525
TUNGSTEN
Simultaneous Determination of Chromium(VI) and Tungsten(VI) Based on Their Catalytic Effect on the Reaction Between Hydrogen Peroxide and Iodide, 2251
TURBIDIMETRY
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807
TUTORIAL REVIEW
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Introduction to Control Charts in the Analytical Laboratory. Tutorial Review, 369
Environmental Sensors Based on Atomic Fluorescence, 1641
Discovering Flow Injection: Journey From Sample to a Live Cell and From Solution to Suspension, 1925
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Tutorial Review. Object oriented Programming on Personal Computers, 2149
Tutorial Review. Calculating Standard Deviations and Confidence Intervals with a Universally Applicable Spreadsheet Technique, 2161
Tutorial Review—Qualitative Analysis in the Near-infrared Region, 2367
TWO-DIMENSIONAL ELECTROPHORESIS
Two-dimensional Electrophoresis of Proteins With a Different Approach to Isoelectric Focusing, 1341
TYROSINASE
Amperometric Biosensor for Phenols Based on a Tyrosinase–Graphite–Epoxy Biocomposite, 455
ULTRAMICROELECTRODE
Advances in Scanning Electrochemical Microscopy , 719
ULTRASONIC IRRADIATION
Solid–Liquid Extraction for the Determination of Impurities in High-purity Lead by Atomic Absorption Spectrometry With Electrothermal Atomization, 1451
ULTRAVIOLET–VISIBLE DETECTION
Study by Ultraviolet–Visible Derivative Spectrophotometry of Some Antibiotics—Part I. Molecular Interactions of Benzylpenicillin in Aqueous Solution, 1087
Separation and Sensitive Determination of Metal Ions by Capillary Zone Electrophoresis With 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulfopropylamino)phenol, 1787
UNCERTAINTY
Evaluation of the Precision of the Flow Injection Doublet Peak Method, 2087
UNIFYING THEORY OF ERRORS
Unifying Theory of Errors for the Analytical Methods of Concentration-dependent Distribution, Immunoassay and Substoichiometric and Subsuperequivalence Isotope Dilution, 981
UNSATURATED FATTY ACID METHYL ESTER
Separation of Saturated and Unsaturated Fatty Acid Methyl Esters by Supercritical Fluid Chromatography on a Silica Column, 921
UPTAKE RATE
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
URANIUM
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
Determination of Uranium by Liquid Scintillation and Cerenkov Counting, 465
Determination of Thorium-234/Uranium-238 Disequilibrium in Freshwater Systems, 2403
URANIUM OXIDE
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991
URBAN AIR
Continuous Determination of Gaseous Formaldehyde by a Chemiluminescence Method, 2237
UREA
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829
UREA DERIVATIVE
Determination of Ethyl *N*-Phenyl Carbamate, 4,4′-Methylenebis-(ethyl phenylcarbamate) and 4,4′-Methylenebis(phenyl isocyanate) by High-performance Liquid Chromatography, 1493
UREA HERBICIDE
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
URIC ACID
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
URICASE
Development of Amperometric Sensors for Uric Acid Based on Chemically Modified Graphite–Epoxy Resin and Screen-printed Electrodes Containing Cobalt Phthalocyanine, 243
Novel, Reagentless, Amperometric Biosensor for Uric Acid Based on a Chemically Modified Screen-printed Carbon Electrode Coated With Cellulose Acetate and Uricase, 833
URINE
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Determination of 2,2,2-Trichloroethanol in Plasma and Urine by Ion-exclusion Chromatography, 409
Poly(vinyl chloride) Matrix Membrane Electrodes for the Selective Determination of Buformin, 1367

Polarographic Behaviour and Determination of Ranitidine in Pharmaceutical Formulations and Urine, 1371
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Detection of Phencyclidine in Urine Using a Polarization Fluoroimmunoassay, 1797
Determination of Trace Amounts of Urea by Using Flow Injection With Chemiluminescence Detection, 1829
Biological Monitoring of Hexamethylene- and Isophorone-diisocyanate by the Determination of Hexamethylene- and Isophorone-diamine in Hydrolysed Urine Using Liquid Chromatography and Mass Spectrometry, 2051
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Application of the Quadratic Response Surface in the Polarographic Determination of Lead: Biological Samples, 2377
Radioimmunoassay for the Determination of Alosetron in Human Urine and Saliva, 2395
Rapid Detection of Paracetamol Using a Disposable, Surface-modified Screen-printed Carbon Electrode, 2431
Rapid Method for the Determination of Total Mercury in Urine Samples Using Cold Vapour Atomic Fluorescence Spectrometry, 2481
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701

URONIC ACID
Determination of the Uronic Acid Constituents of Non-starch Polysaccharides by High-performance Liquid Chromatography With Pulsed Amperometric Detection, 1511

VALIDATION
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627

VANADIUM
Speciation of Vanadium(V) and Vanadium(IV) With 4-(2-Pyridylazo)resorcinol by Using High-performance Liquid Chromatography With Spectrophotometric Detection, 403
Kinetic Thermometric Determination of Vanadium by its Catalytic Action on the Oxidation of Chromotropic Acid by Bromate. Application to the Analysis of Atmospheric Aerosols, 1077
Determination of Vanadium in Clam Tissue (*Citterea* sp.) by Normal-phase High-performance Liquid Chromatography With *N*-Phenylbenzohydroxamic Acid, 1157
Spectrophotometric Determination of Vanadium(IV) and Vanadium(V) in Each Other's Presence. A Review, 1263
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Determination of Metallic Elements in Catalysts by Flame Atomic Absorption Spectrometry Following Microwave Energy-assisted Dissolution of Samples, 1705
Selective Method for the Spectrophotometric Determination of Vanadium in the Presence of Other Refractory Elements with 2,2′-Iminodibenzoic Acid, 2105

VANADIUM CATALYSIS
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391

VAPOUR
Sampling of Inorganic Gases and Vapours, 57
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Sensitive Atmospheric Pressure Detection of Nitroaromatic Compounds and NO_x ($x = 1,2$) Molecules in an Ionization Chamber Using Resonance-enhanced Multi-photon Ionization, 1719

VAPOUR GENERATION
Environmental Sensors Based on Atomic Fluorescence, 1641

VAPOUR-PHASE ACID DIGESTION
Vapour-phase Acid Digestion of Micro Samples of Biological Material in a High-temperature, High-pressure Asher for Inductively Coupled Plasma Atomic Emission Spectrometry, 1017

VAPOUR SAMPLING
Characterization Of The Behaviour Of Nitrogen Dioxide At Low Concentrations in Humid Air Within Adsorbent Charcoal Sampling Media, 2135

VEGETABLE OIL
Modified Method for the Determination of Unsaponifiable Matter in Oils and Fats, 1793

VEGETAL TISSUE
Spectrofluorimetric Determination of Molybdenum in Vegetal Tissues and a Pharmaceutical Compound With Alizarin Red S in Micellar Medium, 1903

VETERINARY DRUG
Veterinary Drugs: Disposition, Biotransformation and Risk Evaluation, 2521
Investigation of Dissociation Enhanced Lanthanide Fluoroimmunoassay as an Alternative Screening Test for Veterinary Drug Residues, 2565
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707

VETERINARY DRUG RESIDUE
Matrix Solid-phase Dispersion as a Multiresidue Extraction Technique for β-Agonists in Bovine Liver Tissue, 1467

VETERINARY HORMONE
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635

VETERINARY MEDICINE
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651
Multi-residue Analysis for Beta-agonists in Urine and Liver Samples Using Mixed Phase Columns With Determination by Radioimmunoassay, 2671
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713

VETERINARY SCIENCE
Developments in Residue Assay and Metabolism Study of Growth-promoters by Mass Spectrometry Analysis, 2529
Immunochemical Detection of Antibiotics and Sulfonamides, 2543
Imidocarb Depletion from Cattle Liver and Mechanism of Retention in Isolated Bovine Hepatocytes, 2549
In Vitro and *In Vivo* Studies of Drug Residue Accumulation in Pigmented Tissues, 2553
Determination of Dexamethasone in Urine and Faeces of Treated Cattle With Negative Chemical Ionization—Mass Spectrometry, 2557
By-products of Steroid Synthesis: a Cause of Interferences in Thin-layer Chromatography Residue Analysis, 2571
Determination of Tilmicosin in Ovine Milk Using High-performance Liquid Chromatography, 2577
Endogenic Nortestosterone in Cattle?, 2581
Formation of 18-Nor-13(14)-ene-17β-methyl Steroids During Perfluoroacylation of Anabolic Steroids Bearing a Tertiary 17-Hydroxy Group and Compounds Related to Corticosteroids, 2587
Synovial Fluid as a Matrix of Selection in the Detection of Beta-Adrenergic Agonist Drugs in Carcasses and Fresh Meat, 2591
Confirmatory Assay for the Simultaneous Detection of Five Penicillins in Muscle, Kidney and Milk Using Liquid Chromatography–Electrospray Mass Spectrometry, 2595
Origin of Chlortetracycline in Pig Tissue, 2603
Gas Chromatography–Mass Spectrometric Confirmation of Anabolic Compounds in Injection Sites, 2607
Experimental Administration of 19-Nortestosterone and Dexamethasone in Cattle: Elimination of the Two Drugs in Different Biological Matrices, 2611
Analysis of [^{3}H]Estradiol-17beta Metabolites in Calf Perirenal Fat, 2623
Method Validation in Relation to Accuracy and Precision for the Gas Chromatography–Mass Spectrometric Analysis of 19-Nortestosterone in Urine With Heptafluorobutyric Anhydride and *N*-Methyl-*N*-(trimethylsilyl)trifluoroacetamide, 2627
Generic Immunoassay of Corticosteroids With Minimum Pre-treatment of Urine Samples, 2631
Automated Extraction of Acetylgestagens From Kidney Fat by Matrix Solid Phase Dispersion, 2635
Control of the Illegal Administration of Natural Steroid Hormones in the Plasma of Bulls and Heifers, 2639
Synthesis of Deuterium-labelled Medroxyprogesterone, Megestrol and Melengestrol Derivatives, 2645
Survey of the Hormones Used in Cattle Fattening Based on the Analysis of Belgian Injection Sites, 2655
Combined Immunoextraction Approach Coupled to a Chemiluminescence Enzyme Immunoassay for the Determination of Trace Levels of Salbutamol and Clenbuterol in Tissue Samples, 2659

Detection of Clenbuterol Residues in Hair, 2663
Screening of Cattle Urine Samples for the Presence of Beta-Agonists With a Functional Test: Some Preliminary Results, 2667
Determination of Fenoterol and Ractopamine in Urine by Enzyme Immunoassay, 2675
Confirmational Analysis of Beta-agonists by Cryotrapping Gas Chromatography–Fourier Transform Infrared Spectrometry, 2681
Determination of Amperozide Residues in Swine Liver Using Liquid Chromatography–Mass Spectrometry, 2687
Melanin as an Adsorbent for Drug Residues, 2691
Determination of Succinonitrile in Horse Urine by Gas Chromatography–Nitrogen–Phosphorus Detector and Gas Chromatography–Mass Spectrometry, 2697
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701
Enzyme Immunoassay for the Detection of Levamisole in Meat and Milk, 2705
European Community Reference Laboratories for Residue Analysis: A Quality Challenge, 2707
Identification of Tylosin in Bovine Muscle at the Maximum Residue Limit Level by Liquid Chromatography–Mass Spectrometry, Using a Particle Beam Interface, 2717
Development of a Polarization Fluoroimmunoassay for Sulfamethazine Using an Automated Analyser, 2723
Improved Spectrophotometric Assay for β-Lactam Residues in Kidney Tissue, 2727
Particle Beam Liquid Chromatography–Mass Spectrometry Method With Negative Ion Chemical Ionization for the Confirmation of Oxacillin, Cloxacillin and Dicloxacillin Residues in Bovine Muscle, 2731
Investigation of Charm Test II Receptor Assays for the Detection of Antimicrobial Residues in Suspect Meat Samples, 2737
Determination of Josamycin Residues in Porcine Tissues Using High-performance Liquid Chromatography With Pre-column Derivatization and Spectrofluorimetric Detection, 2743
High-performance Liquid Chromatographic Determination of Oxytetracycline in Channel Catfish (*Ictalurus punctatus*) Muscle Tissue, 2749
Effect of Temperature and Diet Composition on Residue Depletion of Oxytetracycline in Cultured Channel Catfish, 2757
Novel Approach to the 'On-site' Testing for Sulfamethazine in Pork Carcasses, 2761
Enzyme Immunoassay for the Detection of Isoxazolyl Penicillin Antibiotics in Milk, 2765
Rapid Ion–pair Liquid Chromatographic Method for the Determination of Fenbendazole in Cows' Milk, 2801
Screening of Non-steroidal Anti-inflammatory Drugs, Barbiturates and Methyl Xanthines in Equine Urine by Gas Chromatography–Mass Spectrometry, 2695
Confirmation of Sulfonamide Residues in Kidney Tissue by Liquid Chromatography–Mass Spectrometry, 2753

***VIC*-DIOXIMES**
Determination of Nickel and Copper Using *vic*-Dioximes and Potentiometric Titration, 1629

VIEWPOINT
Representativeness of Analytical Results, 109

VIRGINIAMYCIN
Optimization of the High-performance Liquid Chromatography Assay for Virginiamycin Determination in Mineral Premixes, 361

VISCOSITY
Phase Change and Viscosity Effects on a Quartz Crystal Microbalance, 2005

VITAMIN
On-line Sample Preparation for the Determination of Riboflavin and Flavin Mononucleotides in Foodstuffs, 929
Photokinetic Determination of Riboflavin and Riboflavin 5′-Phosphate Using Flow Injection With Chemiluminescence Detection, 1825
Potentiometric Microtitration of Vitamin B_1 With Phosphotungstic Acid by Using a Phosphotungstate-sensitive Electrode and Its Application to the Analysis of Pharmaceutical Preparations, 2209

VITAMIN C
Simple Solid Wire Microdisc Electrodes for the Determination of Vitamin C in Fruit Juices, 233

VOLATILE ORGANIC COMPOUND
Adsorbent Tube Evaluation for the Preconcentration of Volatile Organic Compounds in Air for Analysis by Gas Chromatography–Mass Spectrometry, 897

VOLTAMMETRY
Hand-held Instrumentation for Environmental Monitoring, 187
Advanced Electroanalytical Techniques *Versus* Atomic Absorption Spectrometry, Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry in Environmental Analysis, 219
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Voltammetric and Amperometric Studies of Thiocholine at a Screen-printed Carbon Electrode Chemically Modified With Cobalt Phthalocyanine: Studies Towards a Pesticide Sensor, 259
Rapid Scanning Voltammetric Detection in Flowing Streams, 273
Batch and Flow Determination of Uranium(VI) by Adsorptive Stripping Voltammetry on Mercury-film Electrodes, 279
Ionophore/Ionomer Films on Glassy Carbon Electrodes for Accumulation Voltammetry. Investigation of a Lead(II) Ionophore, 287
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Voltammetric Behaviour of Thallium(III) at a Solid Heterogeneous Carbon Electrode Using Ion-pair Formation, 299
Application of Catalytic Stripping Voltammetry for the Determination of Organic Sulfur Compounds at a Hanging Mercury Drop Electrode: Behaviour of Cysteine, Cystine and *N*-Acetylcysteine in the Presence of Nickel Ion, 309
Differential-pulse Adsorptive Stripping Voltammetry of the Diuretic Torasemide at a Hanging Mercury Drop Electrode, 319
Voltammetric Study of the Extractant 4-Methyl-*N*-quinolin-8-ylbenzenesulfonamide at a Carbon Paste Electrode, 323
Voltammetric Determination of Dopamine in the Presence of Ascorbic Acid at Over-oxidized Polypyrrole–Indigo Carmine Film-coated Electrodes, 459
Adsorption of Environmentally Important Metal Ions on Solid Particles—Part 1. Anodic Stripping Voltammetry in the Presence of Solid Particles, 759
Microvoltammetric Techniques and Sensors for Monitoring Neurochemical Dynamics *In Vivo*—A Review, 767
Photoelectrochemistry With Quinone Radical Anions: Kinetics of Homogeneous Redox Catalysis, 827
Data Enhancement in Adsorptive Stripping Voltammetry by the Application of Digital Signal Processing Techniques, 847
Differential-pulse Cathodic Stripping Voltammetric Determination of Sodium Nitroprusside at a Hanging Mercury Drop Electrode Aided by Copper(II) and Poly-L-lysine Modification, 963
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057
Determination of Lipoic Acid Using Semi-differential Cathodic Stripping Voltammetry in the Presence of Copper(II), 1067
Quantification of Tiaprofenic Acid Using Voltammetric and Spectrophotometric Techniques, 1071
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229
Adsorptive Stripping Analysis and Monolayer Properties of Crown Ethers With an Azo Unit in the Macrocycle, 1235
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Determination of Ceftriaxone in Aqueous Humour and Serum Samples by Differential-pulse Adsorptive Stripping Voltammetry, 1575
Determination of Thyroxine in Urine by Cathodic Stripping Square-wave Voltammetry, 1579
Optimization of the Experimental Parameters in the Determination of Copper(II) by Differential-pulse Anodic Stripping Voltammetry and Evaluation of the Characteristic Detection Curves, 1585
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Preconcentration and Determination of Lead Ions at a Chitosan-modified Glassy Carbon Electrode, 1599
Anodic Stripping Voltammetry With a Triton X-100 Modified Mercury Film Electrode Using Flow Injection, 1603
Flow Injection Potentiometric and Voltammetric Stripping Analysis Using a Dialysis Membrane Covered Mercury Film Electrode, 1813
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863
Determination of Endosulfan by Stripping Voltammetry, 1867
Voltammetric Determination of Trace Metals and Organics after Accumulation at Modified Electrodes, 1953
Adsorptive Cathodic Stripping Voltammetric Determination of Theophylline at a Hanging Mercury Drop Electrode, 1967
Electrochemical Oxidative Determination of Thimerosal in Soft Contact Lens Care Solutions by Cyclic Voltammetry, 1971
Determination of Silver(I) by Cyclic Voltammetry at Iodine-coated Electrodes, 1975
Voltammetric Study of Salbutamol, Fenoterol and Metaproterenol at Unmodified and Nafion-modified Carbon Paste Electrodes, 1979
Determination of Selenium in Food Supplements by Differential-pulse Cathodic Stripping Voltammetry in the Presence of Added Copper, 2179

Voltammetric Method for the Determination of the Flavour Enhancer Inosinic Acid, 2183
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187
Melatonin, a Hormone Monitorable *In Vivo* by Voltammetry?, 2193
Catalytic Cathodic Stripping Voltammetry at a Hanging Mercury Drop Electrode of Glutathione in the Presence of Nickel Ion, 2343
Electrochemical Oxidation of the Loop Diuretic Torasemide, 2359
Differential-pulse Cathodic Stripping Voltammetric Determination of Nedocromil Sodium at an Unmodified and at a Poly-L-lysine Modified Hanging Mercury Drop Electrode, 2439
Square-wave Voltammetry of Copper–Phenanthroline–Tributylphosphate Complex, 2443
Adsorptive Differential-pulse Stripping Voltammetry of Norfloxacin and its Analytical Application, 2351
Effect of Potassium Iodide on Reducing the Adsorptive Interference of Surfactants and Organics in the Determination of Lead and Cadmium in Environmental Samples by Differential-pulse Anodic Stripping Voltammetry, 2805
Past, Present and Future Contributions of Microelectrodes to Analytical Studies Employing Voltammetric Detection, 1R

WALL-JET CONFIGURATION
On-line Determination of Chromium by Adsorptive Cathodic Stripping Voltammetry, 293
Amperometric Arrays in Flowing Solution Analysis, 953

WALL-JET DETECTOR
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187

WALL-JET EFFECT
Small-volume Batch-injection Analyser, 1345

WALL-JET ELECTRODE
Square-wave Anodic Stripping Voltammetry in Stationary and Flowing Solution: a Comparative Study, 1229

WASTE REMOVAL
Electrochemistry of Waste Removal—A Review, 781

WASTE WATER
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109

WATER
Membrane Filters for Concentration of Trace Elements in Water: Distribution of 2-(2-Pyridylazo)-5-diethylaminophenol Between the Membrane Filter and the Aqueous Phases, 135
Voltammetric Determination at Platinum Microelectrodes of Water in Acetone-based Solutions With Little Supporting Electrolyte, 239
Determination of Ultra-trace Amounts of Selenium(IV) by Flow Injection Hydride Generation Atomic Absorption Spectrometry With On-line Preconcentration by Coprecipitation With Lanthanum Hydroxide, 333
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Laser Mass Spectrometry of a Frozen Water Matrix in Environmental Analysis, 579
Determination of Metals in Sediments of Sinamaica Lagoon, Venezuela by Atomic Absorption Spectrometry, 623
Stabilization of the Peptide Conformation on the Micellar Surface, 647
On-line Preconcentration and Flow Analysis–Fourier Transform Infrared Determination of Carbaryl, 659
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937
Determination of Chromium(VI) in River Water Samples by Electrothermal Atomic Absorption Spectrometry, 1029
Direct Determination of Manganese in Sea-water by Electrothermal Atomic Absorption Spectrometry With Sodium Hydroxide as Chemical Modifier for Interference Removal, 1033
Study of the Stability of Extractable Trace Metal Contents in a River Sediment Using Sequential Extraction, 1109
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135
Determination of 1-Naphthylamine and the Related Pesticides, Naptalam and Antu, in River-water by High-performance Liquid Chromatography. Application to the Study of the Degradation Processes of Naptalam, 1151
Multicomponent Determination of Atrazine, Diuron and Chlorpyrifos in Groundwaters and Soils by Spectrophotometry Using Multivariate Calibration, 1189
Ultraviolet Spectrophotometric Method for the Determination of Aromatic Amines in Chemical Industry Waste Waters, 1195
Determination of Polycyclic Aromatic Hydrocarbon Residues in Water by Synchronous Solid-phase Spectrofluorimetry, 1211
Determination of Aluminium in Water by Flow Injection With Fluorimetric Detection by Using Salicylaldehyde Carbohydrazone as Reagent in a Micellar Medium, 1221
Simultaneous Determination of Tin, Lead and Molybdenum by Differential-pulse Polarography, 1257
Preconcentration of Chromium(III) from Sea-water by Adsorption on Silica and Voltammetric Determination, 1349
Determination of Manganese in Water Samples by Galvanostatic Stripping Chronopotentiometry in a Flow-through Cell, 1355
Effect of Tartrate on Vanadium-catalysed Chlorpromazine–Bromate Redox Reaction and Its Application to the Determination of Vanadium in Natural Waters, 1391
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397
Preconcentration of Trace Amounts of Silver and Cadmium by Ion Exchange and Micro-extraction From Water for Flame Atomic Absorption Spectrometry, 1455
Trace Enrichment of Chlorinated Phenols From Drinking Water on Chemically Bonded Sorbents for High-performance Liquid Chromatography, 1519
Extraction and High-performance Liquid Chromatographic Method for the Determination of Microcystins in Raw and Treated Waters, 1525
Graphical Diagnosis of Interlaboratory Quality Control Data for Surface Water Samples, 1531
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Fast Determination of Aluminium Reactive to 1,2-Dihydroxyanthraquinone-3-sulfonic Acid in Sea-water, 1593
Automated Determination of Weakly Acidic and Basic Pollutants in Surface Water by On-line Electrodialysis Sample Treatment and Column Liquid Chromatography, 1753
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759
Continuous-flow System for the Accurate Determination of Low Concentrations of Ammonium Ions Using a Gas-permeable Poly-(tetrafluoroethylene) Tube Decontaminator and an Ammonia Gas-sensing Membrane Electrode, 1839
Preconcentration and Voltammetric Measurement of Silver(I) With a Carbon Paste Electrode Modified With 2,9-Dichloro-1,10-phenanthroline–Surfactant, 1859
On-line Trace-level Enrichment Gas Chromatography of Triazine Herbicides, Organophosphorus Pesticides, and Organosulfur Compounds From Drinking and Surface Waters, 2025
Continuous Liquid–Liquid Extraction With On-line Monitoring for the Determination of Anionic Surfactants in Waters, 2097
Determination of Antimony in Waste Water with Chromazurol S by Beta-correction Spectrophotometry, 2109
Catalytic Spectrophotometric Determination of Nitrite Using the Chlorpromazine–Hydrogen Peroxide Redox Reaction in Acetic Acid Medium, 2113
Catalytic Spectrofluorimetric Determination of Copper Using Aerial Oxidation of Ascorbic Acid in the Presence of *o*-Phenylenediamine, 2119
Determination of Fenamiphos and Folpet in Water by Time-domain Differentiation of High-performance Liquid Chromatographic Peaks, 2231
Analysis of Binary Mixtures of 3,3′,4,4′-Tetrachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzofuran by Derivative Synchronous Fluorescence Spectrometry in Organized Media, 2241
Field-based Heavy Metal Analyser for the Simultaneous Determination of Multiple Cations On-site, 2337
Determination of Chromium(II) and Chromium(VI) in River Water by Electrothermal Atomic Absorption Spectrometry After Sorption Preconcentration in a Microwave Field, 2477
Spectroscopic Evaluation of Interactions Among Trace Elements and Biogenic Carbonates in the Marine Environment, 2485

WATER ANALYSIS
Development of an Enzyme-linked Immunosorbent Assay for Isoproturon in Water, 431
Spectrophotometric Determination of Sulfide, Sulfite, Thiosulfate, Trithionate and Tetrathionate in Mixtures, 2457

WAVEGUIDE CAPILLARY CELL
Sensitive Determination of Sulfur Concentration in Steel by Spectrophotometry With a Waveguide Capillary Cell, 709

WAVEGUIDE RAMAN SPECTROSCOPY
Enhanced Waveguide Raman Spectroscopy With Thin Films. Plenary Lecture, 491

WET-AIR OXIDATION
Investigation of the Products of Oxidation of Methylpyridines Under Aqueous Conditions by Gas Chromatography–Mass Spectrometry, 903

WET-ASHING
Comparison of Two Digestion Methods for the Determination of Selenium in Biological Samples, 1715

WET DEPOSITION
Analysis of Polychlorinated Biphenyls, Organochlorine Pesticides and Chlorophenols in Rain and Snow, 1135

WET-PROCESSING
Determination of Aluminium, Titanium and Iron Oxides in Wet-processed Phosphoric Acid by Extraction Spectrophotometry, 1887

WHISKY
Analytical Strategies to Confirm Scotch Whisky Authenticity, 1741

WHITE WINE
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093

WIDE-SPREAD ERROR
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 1. A Review of Inter-laboratory Studies, 1277
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 2. Comparison of Extraction Systems, 1283
Wide-spread and Systematic Errors in the Analysis of Soils for Polychlorinated Biphenyls. Part 3. Gas Chromatography, 1293

WINDSCALE
Hot Particles in Accidental Releases From Chernobyl and Windscale Nuclear Installations, 125
Investigation of a Radioactive Particle and a Soil Sample Obtained From the Windscale Area in 1956, 991

WINE
Voltammetric Determination of Free Sulfur Dioxide in Wines Using Platinum and Gold Disc Microelectrodes, 1239
Differential-pulse Polarographic Determination of Iron in Acids, Waters, Fruit Juices and Wines, 1571
Investigation of the Sorbitol Content of Wines and an Assessment of its Authenticity Using Stable Isotope Ratio Mass Spectrometry, 2057
Selective Continuous Flow–Stopped Flow–Continuous Flow Determination of Sulfite in White Wines Using Immobilized Sulfite Oxidase on a Rotating Reactor, 2093
Gas Diffusion and Micellar Catalysis in the Flow Injection Determination of Sulfite, 2447

WOOL KERATIN
Comparative Study of Metal Ion Interactions With Wool Keratin Using Chemometrics, 677

WORK FUNCTION
Poly(*N*-vinylcarbazole)–Propylamine Composite Thin Films With Enhanced Sensitivity to Propylamine Vapour, 2173

WORKPLACE AIR MONITORING
Measuring Strategies for the Nineties. Future Needs From the Health Point of View, 3
European Standardization: Guidance on the Assessment of Occupational Exposure to Chemical Agents, 9
Measurement of Coarse Aerosols in Workplaces. A Review, 13
Measurement of Fine Aerosols in Workplaces. A Review, 19
Performance Parameters for Assessing the Acceptability of Aerosol Sampling Equipment, 27
Direct-reading Instruments for Aerosols. A Review, 35
Sampling, Analysis, Identification and Monitoring of Fibrous Dusts and Aerosols, 41
Sampling of Biological Particles, 53
Sampling of Inorganic Gases and Vapours, 57
Novel Sorbents for Sampling Organic Vapours, 65
Sorbents in Sampling. Stability and Breakthrough Measurements, 71
Diffusive Sampling Using Tube-type Samplers, 75
Diffusive Air Sampling of Reactive Compounds. A Review, 79
Evaluation of a Diffusive Sampler for Air Sampling of Monoterpenes, 85
Strategies for the Simultaneous Collection of Vapours and Aerosols With Emphasis on Isocyanate Sampling, 89
Comparison of Detector Tube Method With European Standards, 99
Low-level Particle Sampling, 103
Enzyme Linked Immunosorbent Assay for Ceftazidime in Airborne Samples, 2411

X-RAY FLUORESCENCE
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601
Characterization of Doped Strontium Sulfide Thin Films by Secondary Ion Mass Spectrometry, Rutherford Backscattering Spectrometry and X-ray Fluorescence Spectrometry, 1725

X-RAY FLUORESCENCE SPECTROMETRY
X-ray Fluorescence Analysis of Ferroalloys: Development of Methods for the Preparation of Test and Calibration Samples, 421

X-RAY MICROANALYSIS
Classification of Mineral Particles by Non-linear Mapping of Electron Microprobe Energy Dispersive X-ray Spectra, 971

X-RAY RAMAN SCATTERING
Chemical Effects on the Intensity of Ti Kη (Radiative Auger Satellite) X-ray Fluorescence Spectra, 601

X-RAY SPECTROMETRY
Chemical Study of Passivating Chromium Oxide Films by Soft X-ray Absorption Spectroscopy, 609

XANTHINE
Determination of Xanthines by High-performance Liquid Chromatography and Thin-layer Chromatography in Horse Urine After Ingestion of Guaraná Powder, 2701

XYLENOL ORANGE-IMPREGNATED RESIN
High-performance Chelation Ion Chromatographic Determination of Trace Metals in Coastal Sea-water Using Dye-impregnated Resins, 937

YEAST FERMENTATION
Rapid Determination of Total Biomass from a Yeast Fermentation Using Sequential Injection, 1807

YTTRIUM
Determination of Strontium-90 in Water and Urine Samples Using Ion Chromatography, 1759

ZEPHIRAMINE
Photometric Titration of Small Amounts of Cationic Surfactants in an Aqueous Medium, 473

ZERANOL
Stability of Zeranol, Nandrolone and Trenbolone in Bovine Urine, 2651

ZINC
Efficient Procedures for the Voltammetric Determination of Total Arsenic in Zinc and Cadmium Plant Electrolyte Process Streams and in Industrial Effluents, 1051
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057
Simultaneous Determination of Zinc and Nickel With 2-(2-Pyridylmethyleneamino)phenol by First-derivative Spectrophotometry, 1099
Spectrofluorimetric Detection of Zinc and Cadmium with 8--(Benzenesulfonamido)-quinoline Immobilized on a Polymeric Matrix, 1225
Differential-pulse Polarographic Determination of Zinc and Manganese in Various Pharmaceutical and Biological Samples After Adsorption of Their Morpholine-4-carbodithioates on Microcrystalline Naphthalene, 1567
Low-volume Microwave Digestion of Marine Biological Tissues for the Measurement of Trace Elements, 1701
Anodic Stripping Voltammetry of Lead, Cadmium and Zinc in the Presence of Copper with an Ion-exchange Column, 2187

ZINC BACITRACIN
Competitive Enzyme-linked Immunosorbent Assay for the Determination of Zinc Bacitracin in Animal Feedingstuffs, 427

ZINC PLANT ELECTROLYTE
On-line and Off-line Voltammetric Methods for the Determination of Nickel in Zinc Plant Electrolyte, 1057

ZINCON
Silica Gel Modified With Zincon as a Sorbent for Preconcentration or Elimination of Trace Metals, 1863

ZIRCONIUM
Sensitive Spectrophotometric Determination of Zirconium With *p*-Acetylchlorophosphonazo in the Presence of Sodium Dodecylbenzenesulfonate, 1893
Sensitive Spectrofluorimetric Determination of Tetracycline Residues in Bovine Milk, 2713
Specifications of Colour Changes of Complexometric Indicators in the Titration of Zirconium With Ethylenediaminetetraacetic Acid, 2817

ZIRCONIUM DIBORIDE
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023

ZIRCONIUM DISILICIDE
Determination of Impurities in Zirconium Disilicide and Zirconium Diboride by Inductively Coupled Plasma Atomic Emission Spectrometry, 1023

ZIRCONIUM HYDROXIDE COPRECIPITATION
Direct Atomization Atomic Absorption Spectrometric Determination of Be, Cr, Fe, Co, Ni, Cu, Cd, and Pb in Water With Zirconium Hydroxide Coprecipitation, 1397

ZOPICLONE
Development of a Radioimmunoassay for the Determination of *N*-Desmethylzopiclone in Urine, 2221

BOOK REVIEWS, 1994

Ahmad, V. U. see Rahman, A. and Ahmad, V. U.
Altgelt, K. H. and Boduszynski, M. M. Composition and Analysis of Heavy Petroleum Fractions, 160N
Bagutsky, V. S. Fundamentals of Electrochemistry, 141N
Barcelo, D. Environmental Analysis. Techniques, Applications and Quality Assurance, 89N
Behrens, D. Kreysa, G. and Eckermann, R. DECHEMA Corrosion Handbook. Corrosive Agents and Their Interaction With Materials. Volume 10. Carboxylic Acid Esters, Drinking Water, Nitric Acid, 42N
Bennett, H. and Oliver, G. J. XRF Analysis of Ceramics, Minerals and Allied Materials, 114N
Betina, V. Chromatography of Mycotoxins. Techniques and Applications, 144N
Bidlingmeyer, B. A. Practical HPLC Methodology and Applications, 56N
Blau, K. and Halket, J. Handbook of Derivatives for Chromatography. Second Edition, 60N
Block, C. B. see Vandecasteele, C. and Block, C. B.
Bockris, J. O'M. see Conway, B. E., Bockris, J. O'M. and White, R. E.
Bockris, J. O'M., Conway, B. E. and White, R. E. Modern Aspects of Electrochemistry. No. 25, 141N.
Boduszynski, M. M. see Altgelt, K. H. and Boduszynski, M. M.
Bunnell, D. A. Scanning Tunneling Microscopy and Spectroscopy. Theory, Techniques and Applications, 41N
Brainina, Kh. and Neyman, E. Electroanalytical Stripping Methods, 142N
Brennecke, J. F. see Kiran, E. and Brennecke, J. F.
Brereton, R. G. Multivariate Pattern Recognition in Chemometrics, Illustrated by Case Studies, 62N
Brett, A. M. O. see Brett, C. M. A. and Brett, A. M. O.
Brett, C. M. A. and Brett, A. M. O. Electrochemistry. Principles, Methods and Applications, 55N
Briggs, D. and Seah, M. P. Practical Surface Analysis. Volume 1. Auger and X-Ray Photoelectron Spectroscopy, 1N
Briggs, D. and Seah, M. P. Practical Surface Analysis. Volume 2. Ion and Neutral Spectroscopy, 15N
Brunner, F. Gas Chromatographic Environmental Analysis. Principles, Techniques, Instrumentation, 154N
Buerr, D. G. Biosensors. Theory and Applications, 143N
Burns, D. A. and Ciurczar, E. W. Handbook of Near-Infrared Analysis, 99N
Buydens, L. see Kateman, G. and Buydens, L.
Buydens, L. M. C. and Schoenmakers, P. J. Intelligent Software for Chemical Analysis, 118N
Chadwick, D. J. and Whelan, J. Aluminium in Biology and Medicine, 58N
Chapman, J. R. Practical Organic Mass Spectrometry. A Guide for Chemical and Biochemical Analysis. Second Edition, 101N
Christian, G. D. see Hadjiioannou, T. P., Christian, G. D., Koupparis, M. A. and Macheras, P. E.
Christofides, C. see Mandelis, A. and Christofides, C.
Ciurczak, E. W. see Burns, D. A. and Ciurczak, E. W.
Clark, R. J. H. and Hester, R. E. Biomolecular Spectroscopy. Part A, 13N
Clark, R. J. H. and Hester, R. E. Biomolecular Spectroscopy. Part B, 102N
Constable, E. C. see Gerluch, M. and Constable, E. C.
Conway, B. E. see Bockris, J. O'M., Conway, B. E. and White, R. E.
Conway, B. E., Bockris, J. O'M. and White, R. E. Modern Aspects of Electrochemistry. Volume 23, 90N
Crompton, T. R. Practical Polymer Analysis, 116N
Dean, J. R. Applications of Supercritical Fluids in Industrial Analysis, 61N
Deming, S. N. and Morgan, S. L. Experimental Design: A Chemometric Approach. Second, revised and expanded edition, 99N
Dempsey, C. H. and Petty, J. D. Laboratory Accreditation and Data Certification A System for Success, 26N
Desiderio, D. M. Mass Spectrometry. Volume 1. Clinical and Biomedical Applications, 25N
Deutsche Forschungsgemeinschaft. List of MAK and BAT Values 1993, 155N
Deutsche Forschungsgemeinschaft. MAK- and BAT-Values 1992. Maximum Concentrations at the Workplace and Biological Tolerance Values for Working Materials, 42N
Diem, M. Introduction to Modern Vibrational Spectroscopy, 159N
Donma, O. see Yuregir, G. T. Donma, O. and Kayrin, L.
Dorfner, K. Ion Exchangers, 60N
Dyer, A., Hudson, M. J. and Williams, P. W. Ion Exchange Processes: Advances and Applications, 116N
Eagleson, M. Concise Encyclopedia of Chemistry, 156N
Eaton, A. N. see Holland, G. and Eaton, A. N.
Eckermann, R. see Behrens, D., Kreysa, G. and Eckermann, R.
Eckermann, R. see Kreysa, G. and Eckermann, R.
Edelman, P. G. and Wang, J. Biosensors and Chemical Sensors. Optimizing Performance Through Polymeric Materials, 153N
Eden, J. G. Photochemical Vapour Deposition, 26N
Ehmann, W. D. and Vance, D. E. Radiochemistry and Nuclear Methods of Analysis, 41N
Fearn, T. see Osborne, B., Fearn, T. and Hindle, P. H.
Franke, J. P. see de Zeeuw, R. A., Franke, J. P., Maurer, H. H. and Pfleger, K.
Fried, B. and Sherma, J. Thin-layer Chromatography. Techniques and Applications, 157N
Garfield, F. M. Quality Assurance Principles for Analytical Laboratories. Second Edition, 153N
George, S. A. see Huber, L. and George, S. A.
Gerischer, H. and Tobias, C. W. Advances in Electrochemical Science and Engineering. Volume 2, 55N
Gerluch, M. and Constable, E. C. Transition Metal Chemsitry—The Valence Shell in *d*-Block Chemistry, 156N
Gileadi, E. Electrode Kinetics for Chemists, Chemical Engineers, and Materials Scientists, 13N
Goodall, D., Hodgson, A. and Hill, S. Capillary Electrophoresis: An Introduction to the Principles and Practice. A Video, 161N
Graham, R. C. Data Analysis for the Chemical Sciences: A Guide to Statistical Techniques, 143N
Gump, B. H. Beer and Wine Production. Analysis, Characterization, and Technological Advances, 159N
Guzman, N. A. Capillary Electrophoresis Technology, 117N
Hadjiioannou, T. P., Christian, G. D., Koupparis, M. A. and Macheras, P. E. Quantitative Calculations in Pharmaceutical Practice and Research, 61N
Halket, J. see Blau, K. and Halket, J.
Heftmann, E. Chromatography, 5th Edition: Fundamentals and Applications of Chromatography and Related Differential Migration Methods. Part A: Fundamentals and Techniques; and Part B; Applications, 56N
Hegarty, C. N. An Introduction to the Management of Laboratory Data: A Tutorial Approach Using Borland's Paradox Relational Database, 29N
Hester, R. E. see Clark, R. J. H. and Hester, R. E.
Hetem, M. J. J. Chemically Modified Silica Surfaces in Chromatography. A Fundamental Study, 43N
Hill, H. H. and McMinn, D. G. Detectors For Capillary Chromatography, 62N
Hill, S. see Goodall, D., Hodgson, A. and Hill, S.
Hindle, P. H. see Osborne, B., Fearn, T. and Hindle, P. H.
Hodgson, A. see Goodall, D., Hodgson, A. and Hill, S.
Hoffstetter-Kuhn, S. see Kuhn, R. and Hoffstetter-Kuhn, S.
Holland, G. and Eaton, A. N. Applications of Plasma Source Mass Spectrometry. Volume II, 113N
Hounsell, E. F. Gycoprotein Analysis in Biomedicine, 77N

Howard, A. G. and Statham, P. J. Inorganic Trace Analysis. Philosophy and Practice, 141N
Huber, L. and George, S. A. Diode Array Detection in HPLC, 27N
Hudson, M. J. see Dyer, A., Hudson, M. J. and Williams, P. W.
Hunt, B. J. and James, M. I. Polymer Characterization, 43N
James, M. I. see Hunt, B. J. and James, M. I.
Ji, G. L. see Yu, T. R. and Ji, G. L.
Jinno, K. Hyphenated Techniques in Supercritical Fluid Chromatography and Extraction, 58N
Jones, C., Mulloy, B. and Thomas, A. H. Spectroscopic Methods and Analyses. NMR, Mass Spectrometry and Metalloprotein Techniques, 29N
Kateman, G. and Buydens, L. Quality Control in Analytical Chemistry. Second Edition, 118N
Kayrin, L. see Yuregir, G. T., Donma, O. and Kayrin, L.
Kenkel, J. Analytical Chemistry Refresher Manual, 113N
Khopkar, S. M. Basic Concepts of Analytical Chemistry, 129N
Kiran, E. and Brennecke, J. F. Supercritical Fluid Engineering Science. Fundamentals and Applications, 14N
Kline, T. Handbook of Affinity Chromatography, 114N
Koupparis, M. A. see Hadjiioannou, T. P., Christian, G. D., Koupparis, M. A. and Macheras, P. E.
Kreysa, G. and Eckermann, R. DECHEMA Corrosion Handbook Corrosive Agents and Their Interaction With Materials. Volume 11. Chlorine Dioxide and Seawater, 16N
Kreysa, G. and Eckermann, R. DECHEMA Corrosion Handbook. Corrosive Agents and Their Interaction With Materials. Volume 12. Chlorinated Hydrocarbons—Chloroethanes, Phosphoric Acid, 130N
Kreysa, G. see Behrens, D., Kreysa, G. and Eckermann, R.
Kricka, L. J. see Szalay, A. A., Kricka, L. J. and Stanley, P.
Kuhn, R. and Hoffstetter-Kuhn, S. Capillary Electrophoresis: Principles and Practice, 89N
Lajunen, L. H. J. Spectrochemical Analysis By Atomic Absorption and Emission, 77N
Lakowicz, J. R. Topics in Fluorescence Spectroscopy. Volume 1. Techniques, 27N
Lakowicz, J. R. Topics in Fluorescence Spectroscopy. Volume 2. Principles, 27N
Lakowicz, J. R. Topics in Fluorescence Spectroscopy. Volume 3. Biochemical Applications, 27N
Li, S. F. Y. Capillary Electrophoresis: Principles, Practice and Applications, 113N
Liprowski, J. and Ross, P. N. Adsorption of Molecules at Metal Electrodes, 2N
Lobinski, R., Marczenko, Z. and Rhodes, P. Dictionary of Analytical Reagents, 60N.
Lowry, O. H. see Passunneau, J. V. and Lowry, O. H.
Macheras, P. E. see Hadjiioannou, T. P., Christian, G. D., Koupparis, M. A. and Macheras, P. E.
Mandelis, A. and Christofides, C. Physics, Chemistry, and Technology of Solid State Gas Sensor Devices, 132N
Marcus, Y. see Marinsky, J. A. and Marcus, Y.
Marczenko, Z. see Lobinski, R., Marczenko, Z. and Rhodes, P.
Marinsky, J. A. and Marcus, Y. Ion Exchange And Solvent Extraction. Volume 11, 3N
Maurer, H. H. see Pfleger, K., Maurer, H. H. and Weber, A.
Maurer, H. H. see de Zeeuw, R. A., Franke, J. P., Maurer, H. H. and Pfleger, K.
McMaster, M. C. HPLC—A Practical User's Guide, 156N
McMinn, D. G. see Hill, H. H. and McMinn, D. G.
Meier, P. C. and Zünd, R. E. Statistical Methods in Analytical Chemistry, 117N
Meyer, V. K. Practical High-performance Liquid Chromatography. Second Edition, 158N
Morgan, S. L. see Deming, S. N. and Morgan, S. L.
Mulloy, B. see Jones, C., Mulloy, B. and Thomas, A. H.
Neagle, W. see Randell, D. R. and Neagle, W.
Neyman, E. see Brainina, Kh. and Neyman, E.
Ngu, T. T. Molecular Interactions in Bioseparations, 131N
Oliver, G. J. see Bennett, H. and Oliver, G. J.
Osborne, B., Fearn, T. and Hindle, P. H. Practical NIR Spectroscopy With Applications in Food and Beverage Analysis, 78N
Parkany, M. Quality Assurance for Analytical Laboratories, 44N
Parriott, D. A Practical Guide to HPLC Detection, 17N
Passunneau, J. V. and Lowry, O. H. Enzymatic Analysis. A Practical Guide, 3N
Patonay, G. HPLC Detection. Newer Methods, 115N
Perkampus, H.-H. UV-VIS Spectroscopy and Its Applications, 41N
Petty, J. D. see Dempsey, C. H. and Petty, J. D.
Pfleger, K. see de Zeeuw, R. A., Franke, J. P., Maurer, H. H. and Pfleger, K.
Pfleger, K., Maurer, H. H. and Weber, A. Mass Spectral and GC Data of Drugs, Poisons, Pesticides, Pollutants and Their Metabolites. Second, revised and enlarged edition. Parts 1, 2 and 3, 30N
Potts, P. J., Trindle, A. G. and Webb, P. C. Geochemical Reference Material Compositions, 4N
Pungor, E. Bioelectroanalysis 2, 56N
Rahman, A. and Ahmad, V. U. ^{13}C-NMR of Natural Products. Volume 2. Diterpenes, 102N
Randell, D. R. and Neagle, W. Surface Analysis Techniques and Applications, 25N
Reed, D. T. see Vandegrift, G. F., Reed, D. T. and Tasker, I. R.
Reid, E. and Wilson, I. D. Bionalaytical Approaches for Drugs, Including Anti-asthmatics and Metabolites, 43N
Rhodes, P. see Lobinski, R., Marczenko, Z. and Rhodes, P.
Ross, P. N. see Lipkowski, J. and Russ, P. N.
Sabbatini, L. and Zambonin, P. G. Surface Characterization of Advanced Polymers, 130N
Sandra, P. see Vindevogel, J. and Sandra, P.
Schoenmakers, P. J. see Boydens, L. M. C. and Schoenmakers, P. J.
Schulman, S. G. Molecular Luminescence Spectroscopy. Methods and Applications: Part 3, 15N
Scott, R. P. W. Silica Gel and Bonded Phases. Their Production, Properties and Use in LC, 4N
Seah, M. P. see Briggs, D. and Seah, M. P.
Seiler, H. G., Siegel, A. and Sigel, H. Handbook on Metals in Clinical and Analytical Chemistry, 155N
Sherma, J. see Fried, B. and Sherma, J.
Siegel, A. see Seiler, H. G., Siegel, A. and Sigel, H.
Sigel, H. see Seiler, H. G., Siegel, A. and Sigel, H.
Sigrist, M. W. Air Monitoring by Spectroscopic Techniques, 158N
Stanley, P. see Szalay, A. A., Kricka, L. J. and Stanley, P.
Statham, P. J. see Howard, A. G. and Statham, P. J.
Szalay, A. A., Kricka, L. J. and Stanley, P. Bioluminescence and Chemiluminescence, 129N
Tasker, I. R. see Vandegrift, G. F., Reed, D. T. and Tasker, I. R.
Thomas, A. H. see Jones, C., Mulloy, B. and Thomas, A. H.
Tindle, A. G. see Potts, P. J., Tindle, A. G. and Webb, P. C.
Tobias, C. W. see Gerischer, H. and Tobias, C. W.
Touchstone, J. C. Practice of Thin-layer Chromatography. Third Edition, 13N
Turkuva, J. Bioaffinity Chromatography. Second Edition, 131N
Turner, A. P. F. Advances in Biosensors. Volume 2, 103N
Vance, D. E. see Ehmann, W. D. and Vance, D. E.
Vandecasteele, C. and Block, C. B. Modern Methods for Trace Element Determination, 100N
Vandegrift, G. F., Reed, D. T. and Tasker, I. R. Environmental Remediation: Removing Organic and Meta Ion Pollutants, 1N
Vindevogel, J. and Sandra, P. Introduction to Micellar Electrokinetic Chromatography, 28N
Voress, L. Instrumentation in Analytical Chemistry 1988–1991, 18N
Wang, J. see Edelman, P. G. and Wang, J.
Webb, P. C. see Potts, P. J., Tindle, A. G. and Webb, P. C.
Weber, A. see Pfleger, K., Maurer, H. H. and Weber, A.
Wenclawiak, B. Analysis With Supercritical Fluids: Extraction and Chromatography, 101N
Westwood, S. A. Supercritical Fluid Extraction And Its Use in Chromatographic Sample Preparation, 16N
Whelan, J. see Chadwick, D. J. and Whelan, J.
White, R. E. see Bockris, J. O'M., Conway, B. E. and White, R. E.
White, R. E. see Conway, B. E., Bockris, J. O'M. and White, R. E.
Williams, P. W. see Dyer, A., Hudson, M. J. and Williams, P. W.
Wilson, I. D. see Reid, E. and Wilson, I. D.
Winefordner, J. D. Treatise on Analytical Chemistry. Part 1. Thermal Methods. Second Edition. Volume 13, 14N
Wolfbeis, O. S. Fluorescence Spectroscopy. New Methods and Applications, 142N
Yinun, J. and Zitrin, S. Modern Methods and Applications in Analysis of Explosives, 2N
Yu, T. R. and Ji, G. L. Electrochemical Methods in Soil and Water Research, 55N
Yuregir, G. T., Donma, U. and Kayrin, L. Trace' 89. Trace Elements in Health and Disease 17N
Zambonin, P. G. see Sabbatini, L. and Zambonin, P. G.

de Zeeuw, R. A., Franke, J. P., Maurer, H. H. and Pfleger, K. Gas Chromatographic Retention Indices of Toxicologically Relevant Substances on packed or Capillary Columns with Dimethylsilicone Stationary Phases, 115N

Zitrin, S. see Yinun, J. and Zitrin, S.
Züno, R. E. see Meier, P. C. and Züno, R. E.
Zyka, J. Instrumentation in Analytical Chemistry. Volume 1, 100N
Zyka, J. Instrumentation In Analytical Chemistry. Volume 2, 160N

0003-2654(1994)*:1-4